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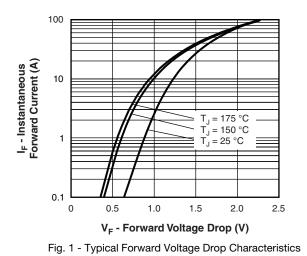
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DYNAMIC RECOVERY CHARACTERISTICS ($T_J = 25$ °C unless otherwise specified)							
PARAMETER	SYMBOL	TEST CO	MIN.	TYP.	MAX.	UNITS	
	t _{rr}	I_F = 1.0 A, $dI_F\!/dt$ = 50 A/µs, V_R = 30 V		-	35	60	
Reverse recovery time		T _J = 25 °C	I _F = 8 A dI _F /dt = 200 A/μs V _R = 200 V	-	43	-	ns
		T _J = 125 °C		-	67	-	
Peak recovery current	I _{RRM}	T _J = 25 °C		-	2.8	-	A
		T _J = 125 °C		-	6.3	-	
Reverse recovery charge	Q _{rr}	T _J = 25 °C		-	60	-	nC
		T _J = 125 °C		-	210	-	

THERMAL - MECHANICAL SPECIFICATIONS							
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS	
Maximum junction and storage temperature range	T _J , T _{Stg}		-65	-	175	°C	
Thermal resistance, junction to case	R _{thJC}		-	1.8	2.0		
Thermal resistance, junction to ambient	R _{thJA}	Typical socket mount	-	-	50	°C/W	
Thermal resistance, case to heatsink	R _{thCS}	Mounting surface, flat, smooth and greased	-	0.5	-		
Woisht			-	2.0	-	g	
Weight			-	0.07	-	oz.	
Mounting torque			6.0 (5.0)	-	12 (10)	kgf · cm (lbf · in)	
Marking davias		Case style TO-263AB (D ² PAK)	8ETU04S		·		
Marking device		Case style TO-262		8ETU04-1			

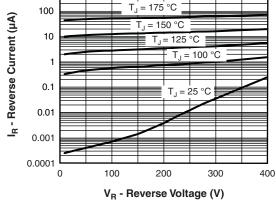
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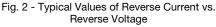
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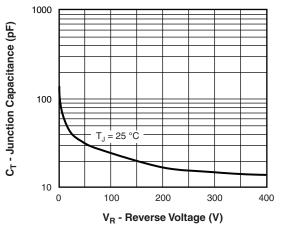


Fig. 3 - Typical Junction Capacitance vs. Reverse Voltage

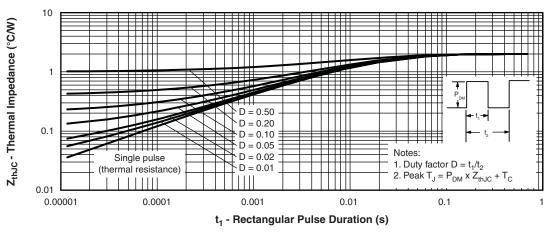
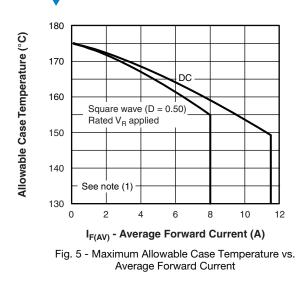


Fig. 4 - Maximum Thermal Impedance ZthJC Characteristics

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 3
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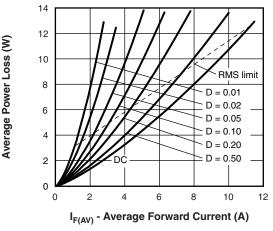
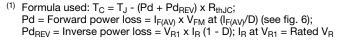


Fig. 6 - Forward Power Loss Characteristics

Note



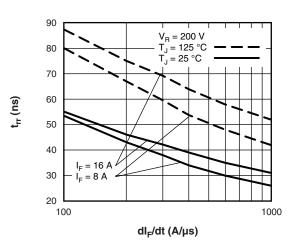
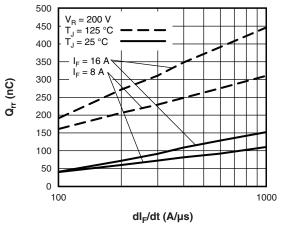


Fig. 7 - Typical Reverse Recovery Time vs. dl_F/dt





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 4
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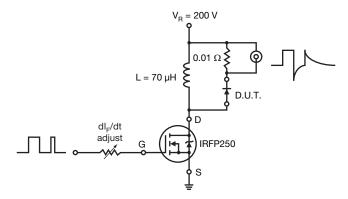


Fig. 9 - Reverse Recovery Parameter Test Circuit

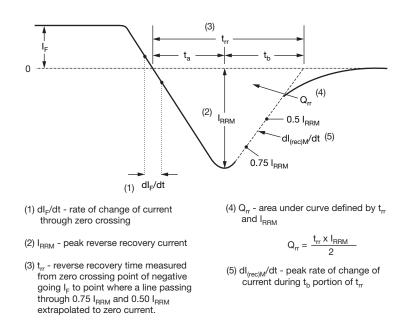
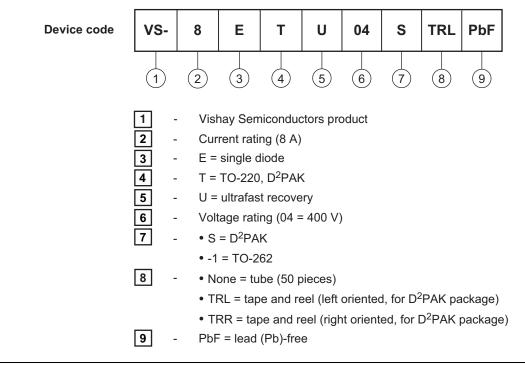


Fig. 10 - Reverse Recovery Waveform and Definitions



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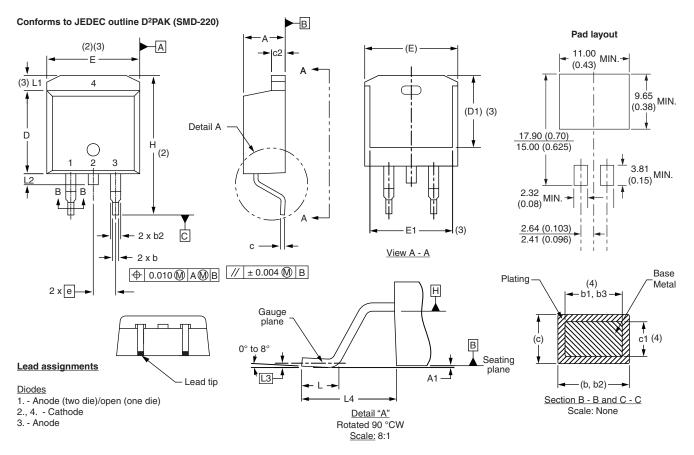
ORDERING INFORMATION TABLE



LINKS TO RELATED DOCUMENTS				
Dimensions www.vishay.com/doc?95014				
Part marking information	www.vishay.com/doc?95008			
Packaging information	www.vishay.com/doc?95032			

Vishay Semiconductors

D²PAK, TO-262



DIMENSIONS - D²PAK in millimeters and inches

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SYMBOL	MILLIN	MILLIMETERS		INCHES		
STNIBUL	MIN.	MAX.	MIN.	MAX.	NOTES	
А	4.06	4.83	0.160	0.190		
A1	0.00	0.254	0.000	0.010		
b	0.51	0.99	0.020	0.039		
b1	0.51	0.89	0.020	0.035	4	
b2	1.14	1.78	0.045	0.070		
b3	1.14	1.73	0.045	0.068	4	
с	0.38	0.74	0.015	0.029		
c1	0.38	0.58	0.015	0.023	4	
c2	1.14	1.65	0.045	0.065		
D	8.51	9.65	0.335	0.380	2	

SYMBOL					NOTES
STWIDUL	MIN.	MAX.	MIN.	MAX.	NULES
D1	6.86	8.00	0.270	0.315	3
E	9.65	10.67	0.380	0.420	2, 3
E1	7.90	8.80	0.311	0.346	3
е	2.54	BSC	0.100	BSC	
Н	14.61	15.88	0.575	0.625	
L	1.78	2.79	0.070	0.110	
L1	-	1.65	-	0.066	3
L2	1.27	1.78	0.050	0.070	
L3	0.25 BSC		0.010	BSC	
L4	4.78	5.28	0.188	0.208	

INCHES

NOTES

MILLIMETERS

⁽⁷⁾ Outline conforms to JEDEC outline TO-263AB

SYMBOL

Notes

 $^{(1)}\,$ Dimensioning and tolerancing per ASME Y14.5 M-1994 $\,$

⁽²⁾ Dimension D and E do not include mold flash. Mold flash shall not exceed 0.127 mm (0.005") per side. These dimensions are measured at the outmost extremes of the plastic body

- $^{(3)}\,$ Thermal pad contour optional within dimension E, L1, D1 and E1
- ⁽⁴⁾ Dimension b1 and c1 apply to base metal only
- ⁽⁵⁾ Datum A and B to be determined at datum plane H
- ⁽⁶⁾ Controlling dimension: inch

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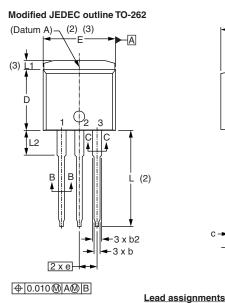
Outline Dimensions

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D²PAK, TO-262



DIMENSIONS - TO-262 in millimeters and inches

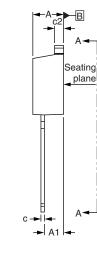


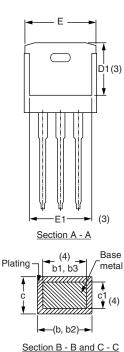
Lead tip

Diodes

3. - Anode

2., 4. - Cathode





Scale: None

(6) Outline conform to JEDEC TO-262 except A1 (maximum), b (minimum) and D1 (minimum) where dimensions derived the

SYMBOL	MILLIMETERS		INCHES		NOTEO
	MIN.	MAX.	MIN.	MAX.	NOTES
А	4.06	4.83	0.160	0.190	
A1	2.03	3.02	0.080	0.119	
b	0.51	0.99	0.020	0.039	
b1	0.51	0.89	0.020	0.035	4
b2	1.14	1.78	0.045	0.070	
b3	1.14	1.73	0.045	0.068	4
С	0.38	0.74	0.015	0.029	
c1	0.38	0.58	0.015	0.023	4
c2	1.14	1.65	0.045	0.065	
D	8.51	9.65	0.335	0.380	2
D1	6.86	8.00	0.270	0.315	3
E	9.65	10.67	0.380	0.420	2, 3
E1	7.90	8.80	0.311	0.346	3
е	2.54 BSC		0.100 BSC		
L	13.46	14.10	0.530	0.555	
L1	-	1.65	-	0.065	3
L2	3.56	3.71	0.140	0.146	

1. - Anode (two die)/open (one die)

Notes

⁽¹⁾ Dimensioning and tolerancing as per ASME Y14.5M-1994

⁽²⁾ Dimension D and E do not include mold flash. Mold flash shall not exceed 0.127 mm (0.005") per side. These dimensions are measured at the outmost extremes of the plastic body

⁽³⁾ Thermal pad contour optional within dimension E, L1, D1 and E1

⁽⁴⁾ Dimension b1 and c1 apply to base metal only

⁽⁵⁾ Controlling dimension: inches

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actual package outline

Document Number: 95014 Revision: 31-Mar-09



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