

**Maximum Ratings** @T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.  
 For capacitance load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	45	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>RM</sub>		
Average Rectified Output Current @ T <sub>C</sub> = 140°C	I <sub>O</sub>	10	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I <sub>FSM</sub>	90	A

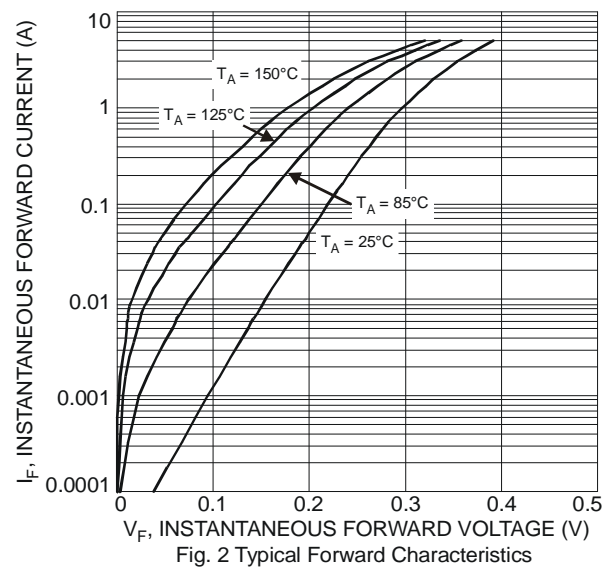
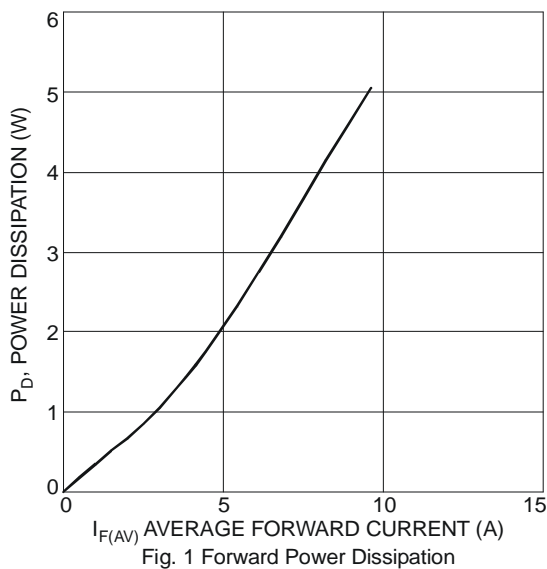
**Thermal Characteristics**

Characteristic	Symbol	Value	Unit
Maximum Thermal Resistance Junction to Case (Note 3)	R <sub>θJC</sub>	3	°C/W
Thermal Resistance Junction to Ambient (Note 3)	R <sub>θJA</sub>	24	
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150	°C

**Electrical Characteristics** @T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop (per leg)	V <sub>F</sub>	-	-	0.49	V	I <sub>F</sub> = 5A, T <sub>J</sub> = 25°C
		-	-	0.44		I <sub>F</sub> = 5A, T <sub>J</sub> = 125°C
Leakage Current (Note 4)	I <sub>R</sub>	-	-	500	μA	V <sub>R</sub> = 45V, T <sub>J</sub> = 25°C
		-	-	40	mA	V <sub>R</sub> = 45V, T <sub>J</sub> = 125°C

Notes: 3. Device mounted 2inch\*2inch Polymide with 501.12mm2 copper pad.  
 4. Short duration pulse test used to minimize self-heating effect.



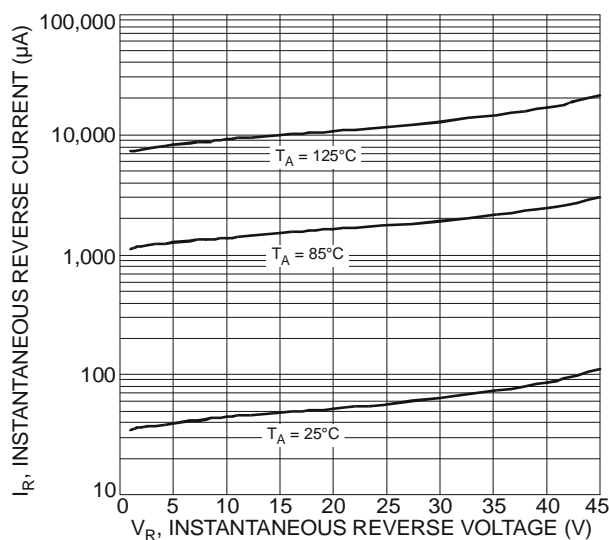


Fig. 3 Typical Reverse Characteristics

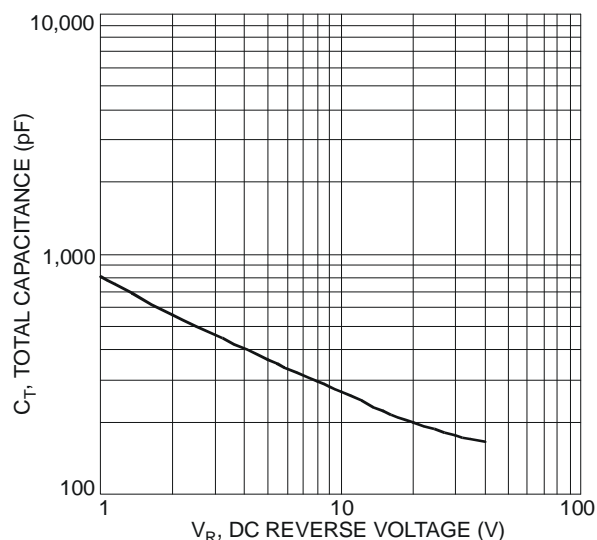


Fig. 4 Total Capacitance vs. Reverse Voltage

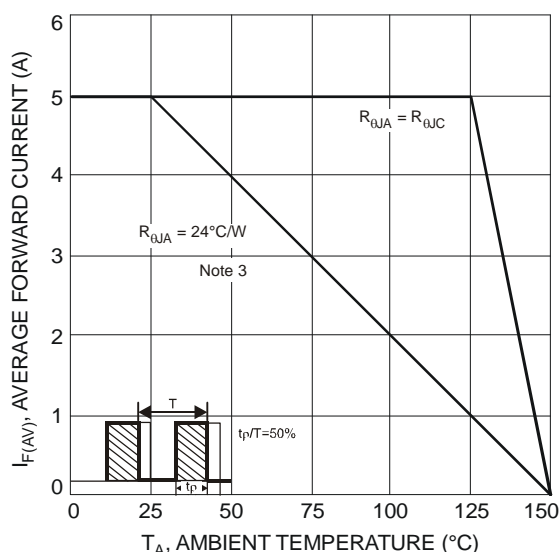
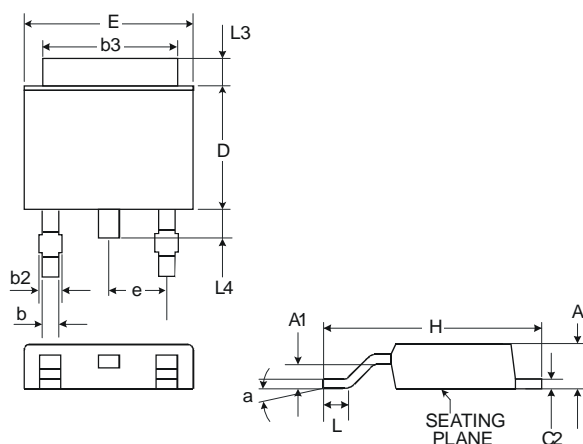


Fig. 5 Forward Current Derating Curve

## Package Outline Dimensions



DPAK			
Dim	Min	Typ	Max
A	2.19	2.29	2.39
A1	0.97	1.07	1.17
b	0.64	0.76	0.88
b2	0.76	0.95	1.14
b3	5.21	5.33	5.50
C2	0.45	0.51	0.58
D	6.00	6.10	6.20
E	6.45	6.58	6.70
e	2.286 Typ.		
H	9.40	9.91	10.41
L	1.40	1.59	1.78
L3	0.88	1.08	1.27
L4	0.64	0.83	1.02
a	0°	-	10°
All Dimensions in mm			

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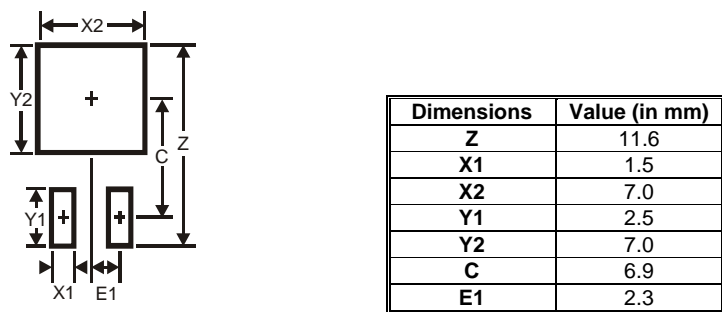
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Suggested Pad Layout



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