

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic		Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		V _{RM}	250	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	250	٧
RMS Reverse Voltage		V _{R(RMS)}	177	V
Forward Continuous Current (Note 5)		I _{FM}	200	mA
Average Rectified Output Current (Note 5)		I ₀	250	mA
Non-Repetitive Peak Forward Surge Current	@ t = 10μs @ t = 100μs @ t = 10ms	I _{FSM}	10 6 2	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P _D	300	mW
Thermal Resistance Junction to Ambient Air (Note 5)	$R_{ hetaJA}$	417	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	$V_{(BR)R}$	250	_	V	I _R = 100μA
Forward Voltage	VF	_	1.0 1.25	V	I _F = 100mA I _F = 200mA
Reverse Current (Note 6)	I _R	_	100 100	nΑ μΑ	V _R = 200V V _R = 200V, T _J = +150°C
Total Capacitance	Ст	_	5	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}	_	50	ns	IF = IR = 30mA, $Irr = 0.1 \times IR, RL = 100\Omega$

Note:

- 5. Part mounted on FR-4 substrate, 2oz Cu pad board with recommended pad layout, which can be found on our website at http://www.diodes.com/package-outlines.html.
- 6. Short duration pulse test used to minimize self-heating effect.

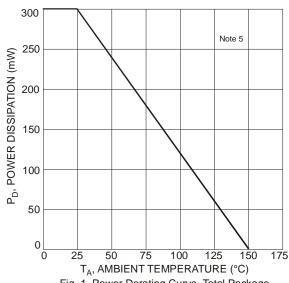


Fig. 1 Power Derating Curve, Total Package

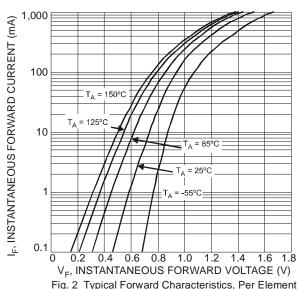
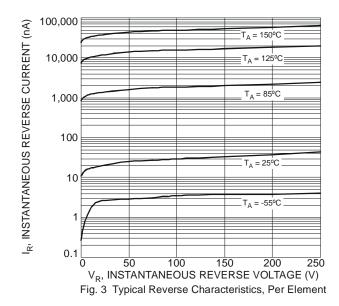


Fig. 2 Typical Forward Characteristics, Per Element





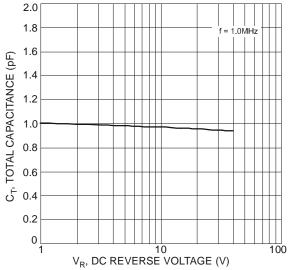
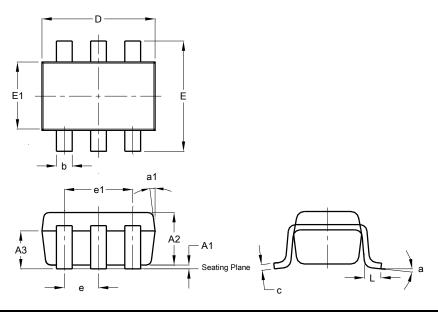


Fig. 4 Total Capacitance vs. Reverse Voltage, Per Element

Package Outline Dimensions

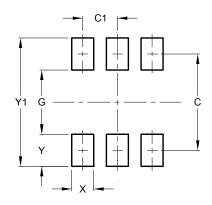
Please see http://www.diodes.com/package-outlines.html for the latest version.



SOT26				
Dim	Min	Max	Тур	
A1	0.013	0.10	0.05	
A2	1.00	1.30	1.10	
А3	0.70	0.80	0.75	
b	0.35	0.50	0.38	
С	0.10	0.20	0.15	
D	2.90	3.10	3.00	
е	-	-	0.95	
e1	-	-	1.90	
Е	2.70	3.00	2.80	
E1	1.50	1.70	1.60	
L	0.35	0.55	0.40	
а	-	-	8°	
a1	-	-	7°	
All Dimensions in mm				

Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.



Dimensions	Value (in mm)
С	2.40
C1	0.95
G	1.60
Х	0.55
Υ	0.80
Y1	3.20



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