

### Maximum Ratings (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic		Symbol	Value	Unit
Repetitive Peak Reverse Voltage		$V_{RRM}$	350	V
Working Peak Reverse Voltage DC Blocking Voltage		$V_{RWM}$ $V_{R}$	300	V
RMS Reverse Voltage		V <sub>R(RMS)</sub>	212	V
Forward Continuous Current (Note 6)		lF	225	mA
Peak Repetitive Forward Current (Note 6)		I <sub>FRM</sub>	625	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	I <sub>FSM</sub>	4.0 1.0	А

# **Thermal Characteristics**

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 6)	P <sub>D</sub>	350	mW
Thermal Resistance Junction to Ambient Air (Note 6)	R <sub>0JA</sub>	357	°C/W
Operating and Storage Temperature Range	$T_J$ , $T_{STG}$	-65 to +150	°C

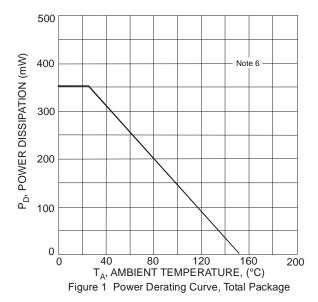
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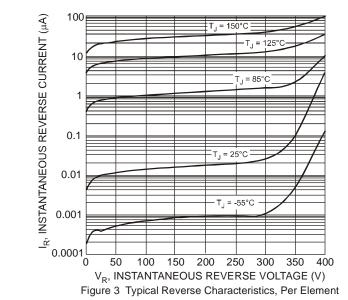
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 7)	$V_{(BR)R}$	350	_		<b>V</b>	$I_R = 150\mu A$
Forward Voltage	V <sub>F</sub>	_	0.78 0.93 1.03	0.87 1.0 1.25	V	I <sub>F</sub> = 20mA I <sub>F</sub> = 100mA I <sub>F</sub> = 200mA
Reverse Current (Note 7)	I <sub>R</sub>	_	30 35	100 100	nΑ μΑ	V <sub>R</sub> = 240V V <sub>R</sub> = 240V, T <sub>J</sub> = +150°C
Total Capacitance	C <sub>T</sub>		1.0	5.0	pF	$V_R = 0V$ , $f = 1.0MHz$
Reverse Recovery Time	t <sub>RR</sub>		_	50	ns	$I_F = I_R = 30 \text{mA},$ $I_{RR} = 3.0 \text{mA}, \ R_L = 100 \Omega$

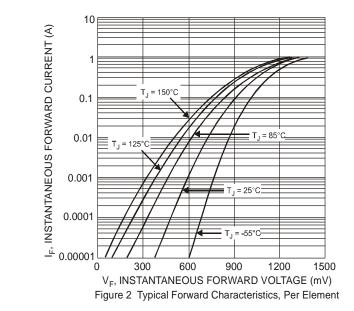
Notes:

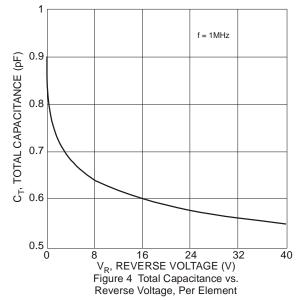
<sup>6.</sup> Part mounted on FR-4 substrate with pad dimensions 1 inch x 1 inch, 2oz, copper, single-sided, PC board. 7. Short duration pulse test used to minimize self-heating effect.









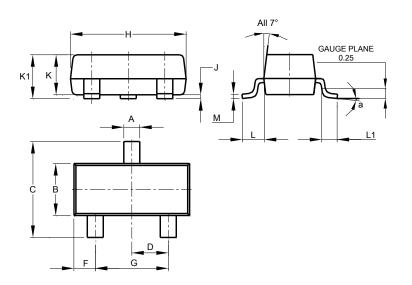




### **Package Outline Dimensions**

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

### SOT23

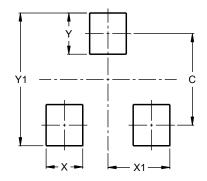


SOT23					
Dim	Min	Max	Тур		
Α	0.37	0.51	0.40		
В	1.20	1.40	1.30		
С	2.30	2.50	2.40		
D	0.89	1.03	0.915		
F	0.45	0.60	0.535		
G	1.78	2.05	1.83		
Η	2.80	3.00	2.90		
J	0.013	0.10	0.05		
K	0.890	1.00	0.975		
K1	0.903	1.10	1.025		
L	0.45	0.61	0.55		
L1	0.25	0.55	0.40		
М	0.085	0.150	0.110		
а	0°	8°	_		
All Dimensions in mm					

# **Suggested Pad Layout**

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

### SOT23



Dimensions	Value (in mm)
С	2.0
Х	0.8
X1	1.35
Y	0.9
Y1	2.9



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