

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

Characteristic		Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		V _{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage		V _{RRM} V _{RWM}	75	V
Forward Continuous Current (Note 5)		I _{FM}	300	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	IFSM	2.0 1.0	A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	PD	350	mW
Thermal Resistance Junction to Ambient Air (Note 5)	R _{OJA}	357	°C/W
Operating and Storage Temperature Range	T_J , T_STG	-65 to +150	O°

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

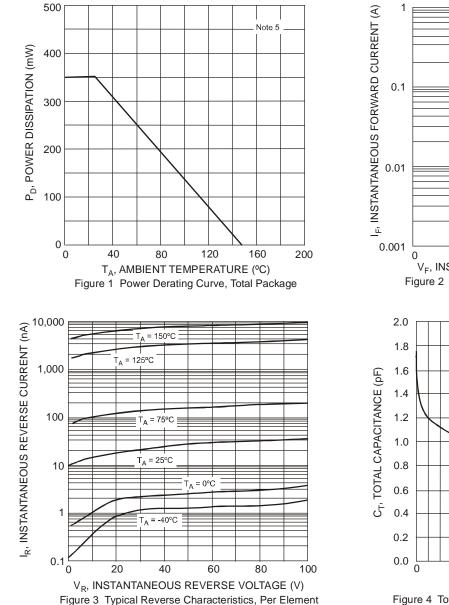
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	75		V	I _R = 100μA
Forward Voltage	VF	0.55 0.67 0.75 —	0.70 0.82 1.10 1.25	V	$I_{F} = 1.0mA$ $I_{F} = 10mA$ $I_{F} = 50mA$ $I_{F} = 150mA$
Reverse Current (Note 6)	I _R	_	1.0 3.0 100 25	μΑ μΑ μΑ nA	$V_{R} = 50V$ $V_{R} = 100V$ $V_{R} = 50V, T_{J} = +125^{\circ}C$ $V_{R} = 20V$
Total Capacitance	CT		2.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}		4.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$

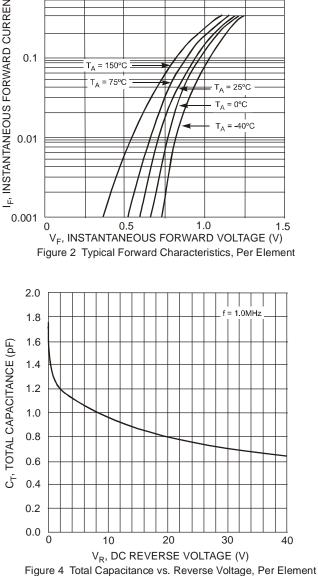
Notes: 5. Part mounted on FR-4 substrate printed circuit board with 1 inch square 2oz copper pad area.

6. Short duration pulse test used to minimize self-heating effect.





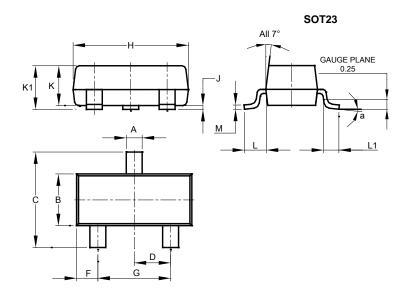






Package Outline Dimensions

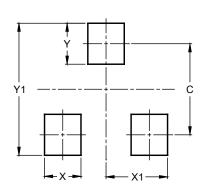
Please see http://www.diodes.com/package-outlines.html for the latest version.



	SOT23				
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		
н	2.80	3.00	2.90		
J	0.013	0.10	0.05		
κ	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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