

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

Characteristic		Symbol	Value	Unit
Repetitive Peak Reverse Voltage		V_{RRM}	250	V
Working Peak Reverse Voltage DC Blocking Voltage		V _{RWM} V _R	200	V
RMS Reverse Voltage		V _{R(RMS)}	141	V
Forward Continuous Current (Notes 6, 8)		I _{FM}	400	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0μs @ t = 100μs @ t = 10ms	I _{FSM}	9.0 3.0 1.7	А
Repetitive Peak Forward Surge Current (Note 6)		I _{FRM}	625	mA

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 6)	P_{D}	350	mW
Thermal Resistance Junction to Ambient Air (Note 6)	$R_{ heta JA}$	357	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

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

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 7)	$V_{(BR)R}$	250	_	V	$I_R = 100\mu A$
Forward Voltage	V _F	1	1.0	V	$I_F = 100 \text{mA}$
o o ward voltage			1.25		$I_F = 200 \text{mA}$
Reverse Current (Note 7)	_	1	100	nA	$V_R = 200V, T_J = +25^{\circ}C$
Neverse Current (Note 1)	IR		100	μA	$V_R = 200V, T_J = +150^{\circ}C$
Total Capacitance	C _T	1	5.0	pF	$V_R = 0, f = 1.0MHz$
Reverse Recovery Time	+	_	50	ns	$I_F = I_R = 30 \text{mA},$
The verse in the covery filling	t _{RR}				$I_{RR} = 0.1 \text{ x } I_{R}, R_{L} = 100\Omega$

Notes:

- 6. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/package-outlines.html.
- 7. Short duration pulse test used to minimize self-heating effect.8. Double Diode Loaded in Parallel. For Single Diode or Double Diode Loaded in Series, the continuous forward current should be reduced by half.

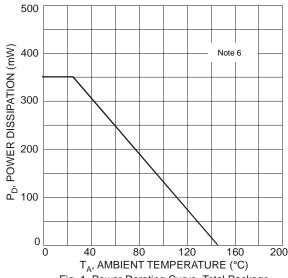
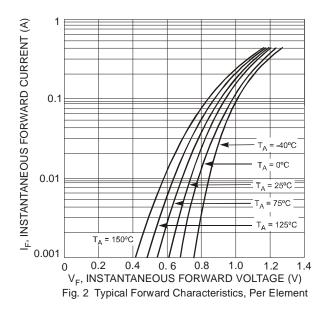
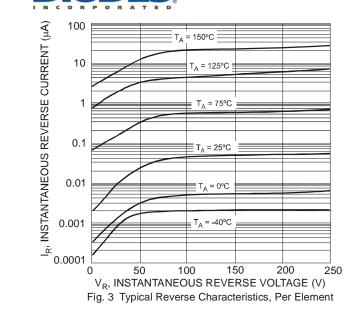


Fig. 1 Power Derating Curve, Total Package









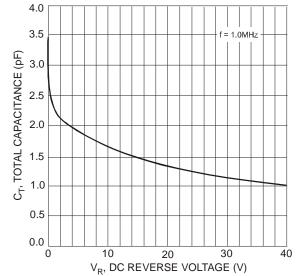
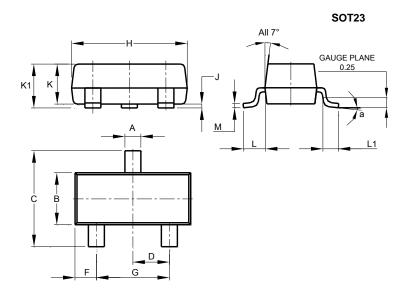


Fig. 4 Total Capacitance vs. Reverse Voltage, Per Element

Package Outline Dimensions

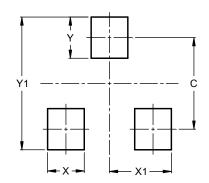
Please see http://www.diodes.com/package-outlines.html for the latest version.



SOT23				
Dim	Min	Max	Тур	
Α	0.37	0.51	0.40	
В	1.20	1.40	1.30	
C	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	
7	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

 $\label{prop:lease} Please see \ http://www.diodes.com/package-outlines.html for the \ latest \ version.$



SOT23

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



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