

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

Characteristic		Symbol	Value	Unit
Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	85	V
RMS Reverse Voltage		$V_{R(RMS)}$	60	V
Forward Current (Note 5)		l _F	215	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0ms @ t = 1s	I _{FSM}	4.0 1.0 0.5	А
Repetitive Peak Forward Current (Note 5)		I _{FRM}	500	mA

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P_{D}	250	mW
Thermal Resistance Junction to Ambient Air (Note 5)	$R_{\theta JA}$	500	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

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

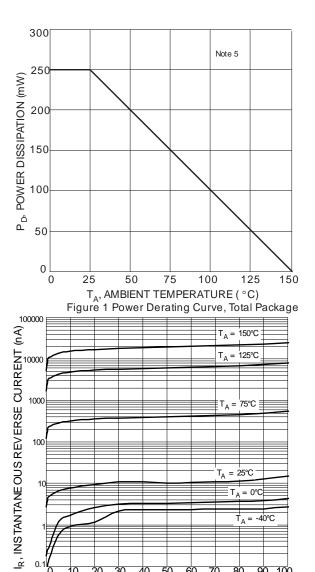
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	85		V	I _R = 100μA
Forward Voltage	VF		0.715 0.855 1.0 1.25	V	IF = 1.0mA IF = 10mA IF = 50mA IF = 150mA
Reverse Current (Note 6)	I _R	-	1.0 50 30 30	μΑ μΑ μΑ nA	VR = 75V VR = 75V, TJ = +150°C VR = 25V, TJ = +150°C VR = 25V
Total Capacitance	C _T		1.5	pF	$V_R = 0, f = 1.0MHz$
Reverse Recovery Time	t _{RR}	_	4	ns	$I_F = I_R = 10 \text{mA},$ $I_{RR} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

Notes:

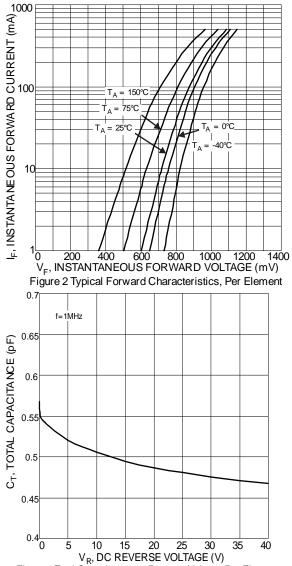
- 5. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/package-outlines.html.
- 6. Short duration pulse test used to minimize self-heating effect.

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0 10 20 30 40 50 60 70 80 90 100 V_R, INSTANTANEOUS REVERSE VOLTAGE (V) Figure 3 Typical Reverse Characteristics, Per Element

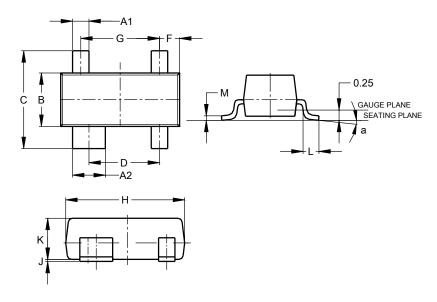




Package Outline Dimensions

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

SOT143

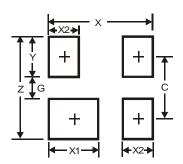


SOT143				
Dim	Min	Max	Тур	
A1	0.37	0.51	0.400	
A2	0.77	0.93	0.800	
В	1.20	1.40	1.30	
U	2.28	2.48	2.38	
D	1.58	1.83	1.72	
F	0.45	0.60	0.49	
G	1.78	2.03	1.92	
Н	2.80	3.00	2.90	
J	0.013	0.10	0.05	
K	0.89	1.00	-	
L	0.46	0.60	0.50	
М	0.085	0.18	0.11	
а	0°	8°	_	
All Dimensions in mm				

Suggested Pad Layout

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

SOT143



Dimensions	Value (in mm)
Z	2.70
G	1.30
Х	2.50
X1	1.00
X2	0.60
Y	0.70
С	2.00

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