

Characteristic	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	250	V
Working Peak Reverse Voltage DC Blocking Voltage	V _{RWM} V _R	250	V
RMS Reverse Voltage	V _{R(RMS)}	175	V
Forward Continuous Current (Note 6)	I _F	200	mA
Peak Repetitive Forward Current (Note 6)	I _{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0µs	I _{FSM}	4.0	Α

Thermal Characteristics

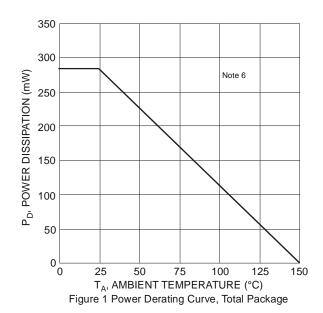
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 6)	P _D	285	mW
Thermal Resistance Junction to Ambient Air (Note 6)	$R_{\theta JA}$	435	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

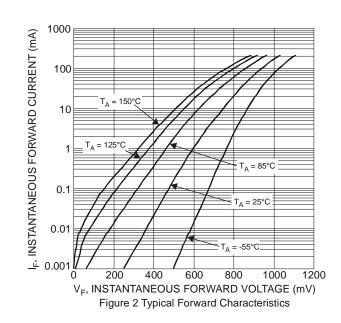
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 7)	V _{(BR)R}	250	_		V	$I_R = 100\mu A$
Forward Voltage	V _F	_	_ _ _	0.90 1.05 1.3	V	I _F = 20mA I _F = 100mA I _F = 200mA
Reverse Current (Note 7)	I _R	_	30 35	100 100	nΑ μΑ	V _R = 200V V _R = 200V, T _J = +150°C
Total Capacitance	C _T	_	0.7	5.0	pF	$V_R = 0V$, $f = 1.0MHz$
Reverse Recovery Time	t _{rr}	_	_	50	ns	$\begin{split} I_F &= I_R = 30 mA, \\ I_{rr} &= 3.0 mA, \ R_L = 100 \Omega \end{split}$

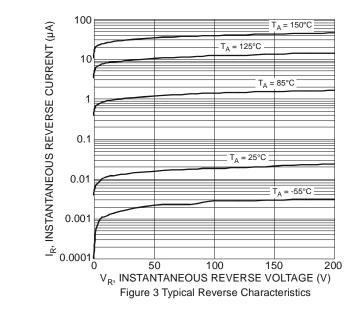
Notes:

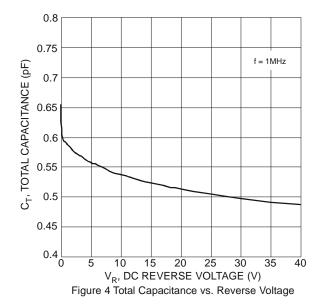
- 6. Part mounted on FR-4 substrate with pad dimensions 1 inch x 1 inch, 2oz, copper, single-sided, PC board.
- 7. Short duration pulse test used to minimize self-heating effect.





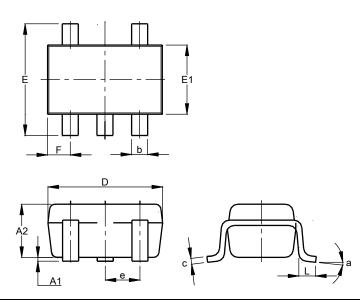






Package Outline Dimensions

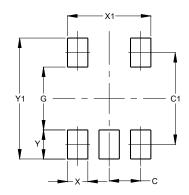
Please see http://www.diodes.com/package-outlines.html for the latest version.



SOT353					
Dim	Min	Max	Тур		
A1	0.00	0.10	0.05		
A2	0.90	1.00	0.95		
b	0.10	0.30	0.25		
С	0.10	0.22	0.11		
D	1.80	2.20	2.15		
E	2.00	2.20	2.10		
E1	1.15	1.35	1.30		
е	0.650 BSC				
F	0.40	0.45	0.425		
L	0.25	0.40	0.30		
а	0°	8°			
All Dimensions in mm					

Suggested Pad Layout

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



Dimensions	Value (in mm)	
C	0.650	
C1	1.900	
G	1.300	
X	0.420	
X1	1.720	
Y	0.600	
Y1	2.500	



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