

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 DC Blocking Voltage	V _{RRM} V _{RWM} V _R	75	V
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current (Note 7)	I _{FM}	300	mA
Average Rectified Output Current (Note 7)	Io	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 (Note 7) @ t = 1.0	' I ICM	2.0 1.0	A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 7)	P_{D}	200	mW
Thermal Resistance Junction to Ambient Air (Note 7)	R _{ÐJA}	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

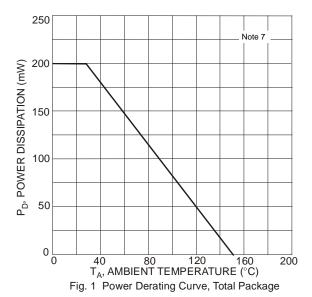
Electrical Characteristics @TA = 25°C unless otherwise specified

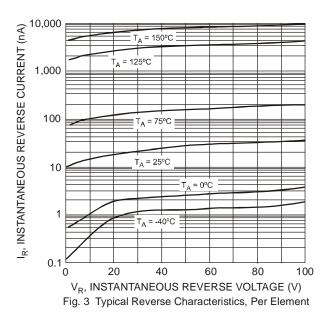
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 8)	$V_{(BR)R}$	75	_	V	$I_R = 2.5 \mu A$
Forward Voltage V _F		0.55	0.70	V	$I_F = 1.0 \text{mA}$
	\/_	_	0.855		$I_F = 10mA$
	VF	_	1.0		$I_F = 50mA$
	_	1.25	I	$I_F = 150 \text{mA}$	
Reverse Current (Note 8)			2.5	μA	V _R = 75V
			50	μA	V _R = 75V, T _J = 150°C
	IR	_	30	μA	$V_R = 25V, T_J = 150$ °C
			25	nA	V _R = 20V
Total Capacitance	C _T	_	2.0	pF	$V_R = 0, f = 1.0MHz$
Reverse Recovery Time		_	4.0	ns	$I_F = I_R = 10 \text{mA},$
	t _{rr}				$I_{rr} = 0.1 \times I_{R}, R_{L} = 100\Omega$

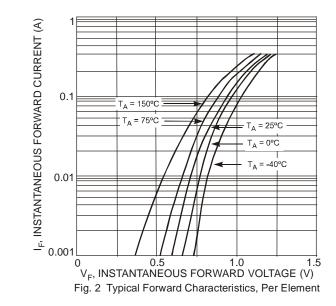
Notes:

- 7. Device mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com.
- 8. Short duration pulse test used to minimize self-heating effect.









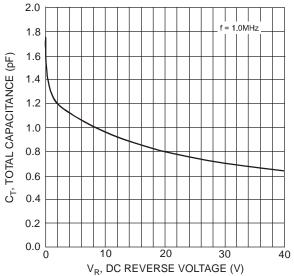


Fig. 4 Total Capacitance vs. Reverse Voltage, Per Element

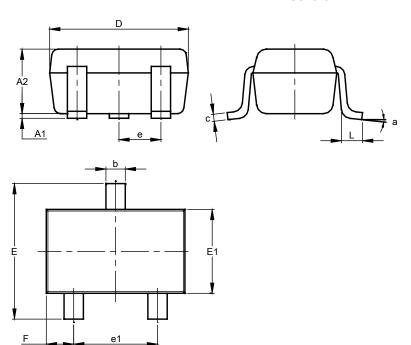
Downloaded from Arrow.com.



Package Outline Dimensions

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

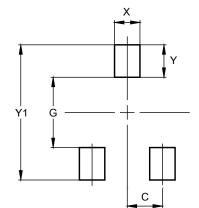
SOT323



SOT323			
Dim	Min	Max	Тур
A1	0.00	0.10	0.05
A2	0.90	1.00	0.95
b	0.25	0.40	0.30
С	0.10	0.18	0.11
D	1.80	2.20	2.15
Е	2.00	2.20	2.10
E1	1.15	1.35	1.30
е	0.650 BSC		
e1	1.20	1.40	1.30
F	0.375	0.475	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.



SOT323

Dimensions	Value (in mm)
С	0.650
G	1.300
Х	0.470
Y	0.600
Y1	2.500



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