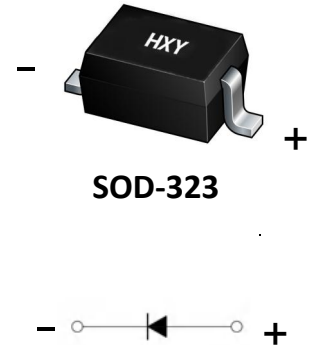




FEATURES

- Low Forward Voltage Drop
- Negligible Reverse Recovery Time



Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	1000	V
Reverse Voltage	V_R	700	V
Average Rectified Forward Current	$I_{F(AV)}$	1	A
Surge Forward Current ($t < 1\text{ s}$, $T_j = 25\text{ }^\circ\text{C}$)	I_{FSM}	15	A
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	55	$^\circ\text{C/W}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 1\text{ mA}$ at $I_F = 1\text{ A}$	V_F	- -	0.715 1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	- -	5 50	μA μA
Total Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$	C_J	-	2	pF
Typical junction capacitance	t_{rr}	-	1.8	μs



Typical Characteristics

Fig.1 Forward Current Derating Curve

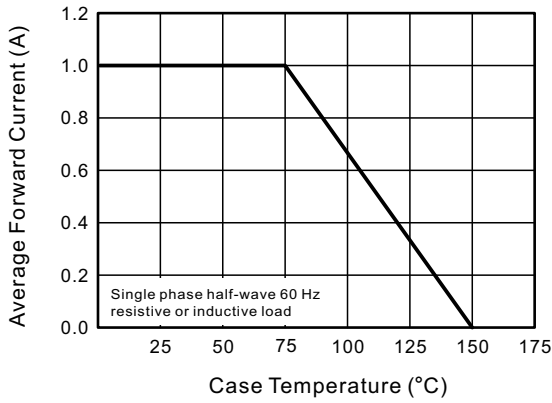


Fig.2 Typical Instantaneous Reverse Characteristics

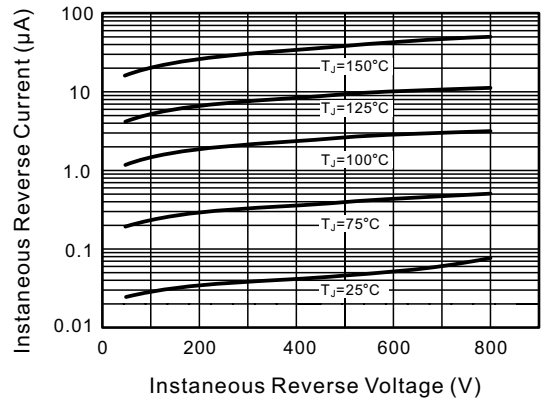


Fig.3 Typical Forward Characteristic

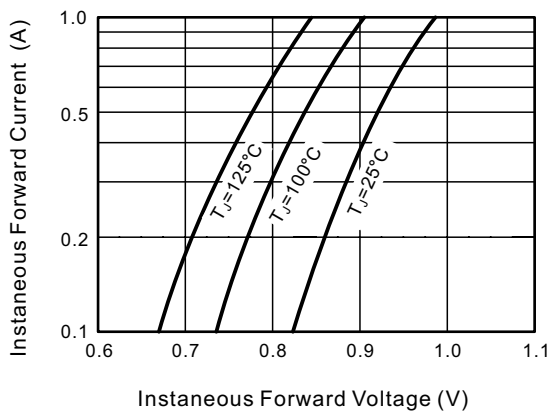


Fig.4 Typical Junction Capacitance

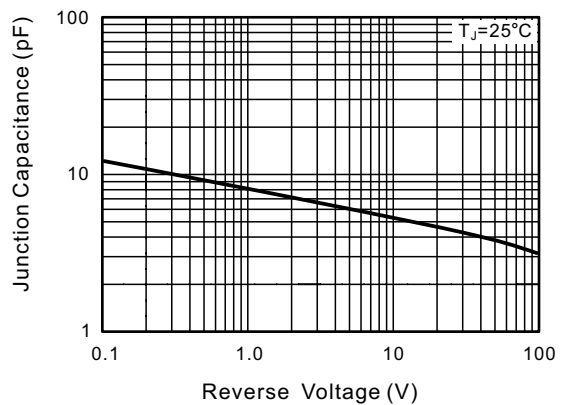
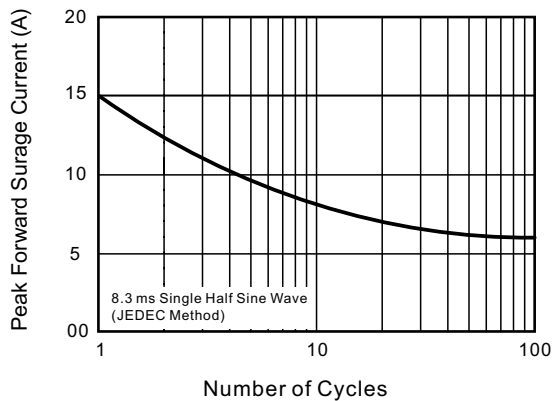
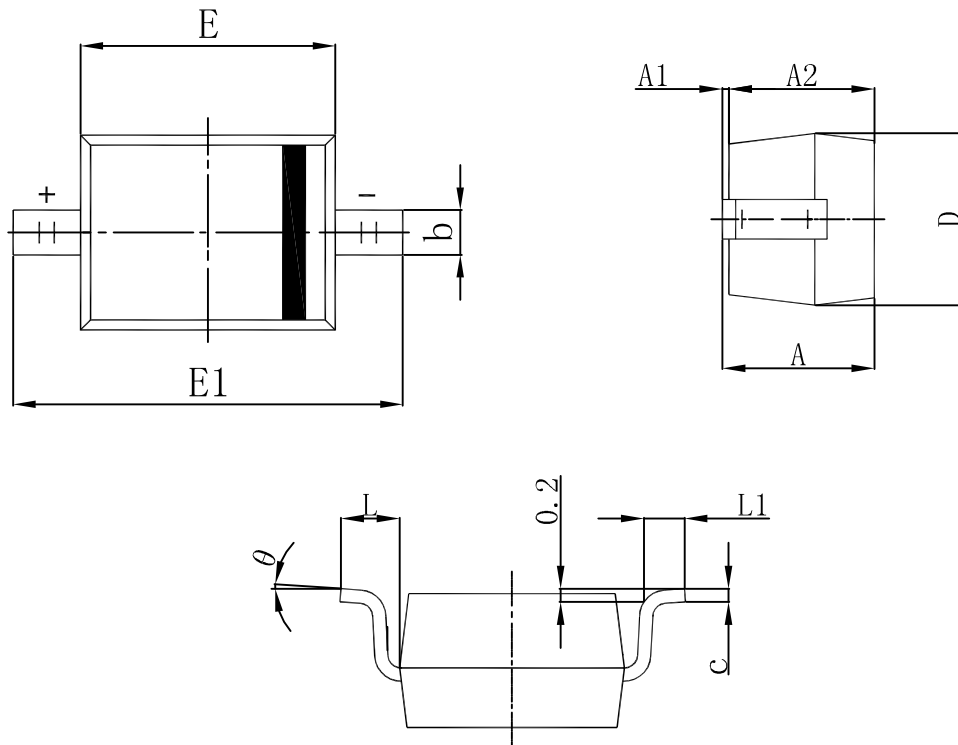


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current





SOD-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		1.100		0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.000	0.031	0.039
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.500	2.750	0.098	0.108
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°



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