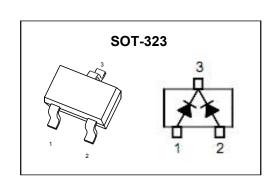


Features

- Fast switching diode
- Ultra small surface mount package



Absolute Maximum Ratings ($T_a = 25$ °C)

Parameter		Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		V_{RM}	100	V
Reverse Voltage		V_R	75	V
	Single diode loaded Double diode loaded		175 100	mA
Repetitive Peak Forward Current		I _{FRM}	500	mA
Non-repetitive Peak Forward Surge Current at t = 1 s at t = 1 ms at t = 1 µs		I _{FSM}	0.5 1 4	А
Power Dissipation		P _{tot}	200	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	- 65 to + 150	°C

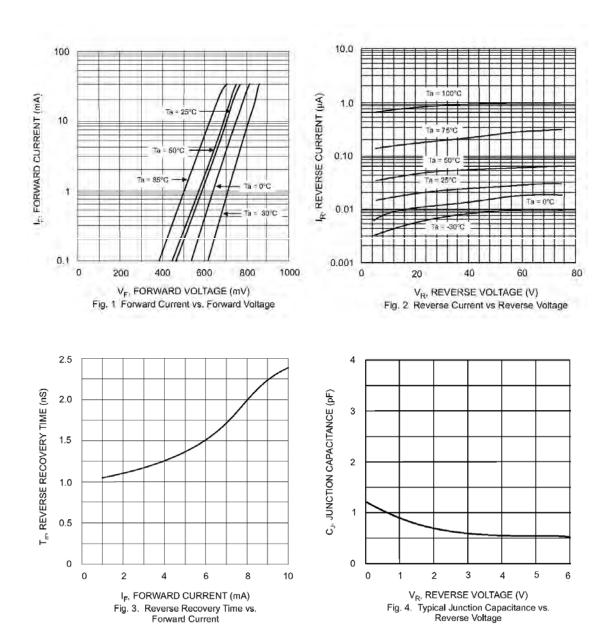
Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu A$	$V_{BR(R)}$	75	-	V
Forward Voltage at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 50$ mA at $I_F = 150$ mA	V _F		0.715 0.855 1 1.25	V
Reverse Leakage Current at V_R = 25 V at V_R = 75 V at V_R = 25 V, T_J = 150 °C at V_R = 75 V, T_J = 150 °C	I _R	- - - -	30 2.5 60 100	nA μΑ μΑ μΑ
Diode Capacitance at V _R = 0 V, f = 1 MHz	C _{tot}	-	2	pF
Reverse Recovery Time at I_F = 10 mA to I_R = 10 mA, I_{rr} = 0.1 I_R , R_L = 100 Ω	t _{rr}	-	4	ns

www.tw-gmc.com



Typical Characteristics

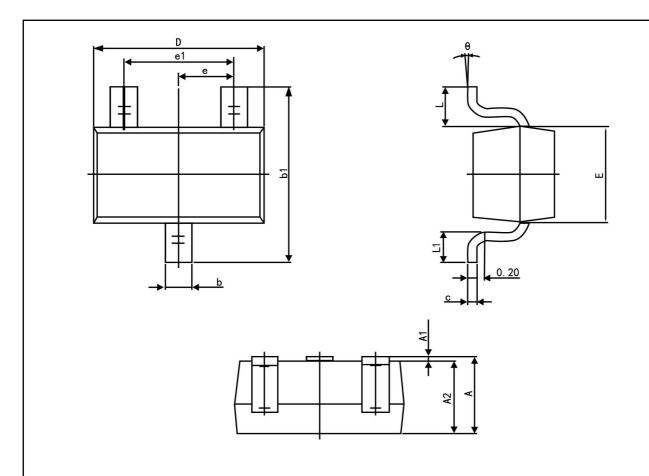




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-323



Symbol	Dimension in Millimeters		
Symbol	Min	Max	
Α	0.900	1.100	
A1	0.000	0.100	
A2	0.900	1.000	
b	0.200	0.400	
С	0.080	0.150	
D	2.000	2.200	
E	1.150	1.350	
E1	2.150	2.450	
е	0.650 TYP.		
e1	1.200	1.400	
L	0.525 REF.		
L1	0.260	0.460	
θ	0°	8°	

www.tw-gmc.com 3