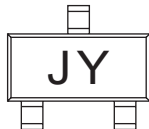


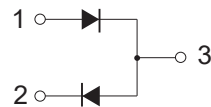
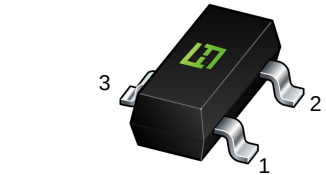
FEATURES

- This Switching Diode has The Following Features:
- Low Leakage Current Applications

Marking: JY



SOT-23



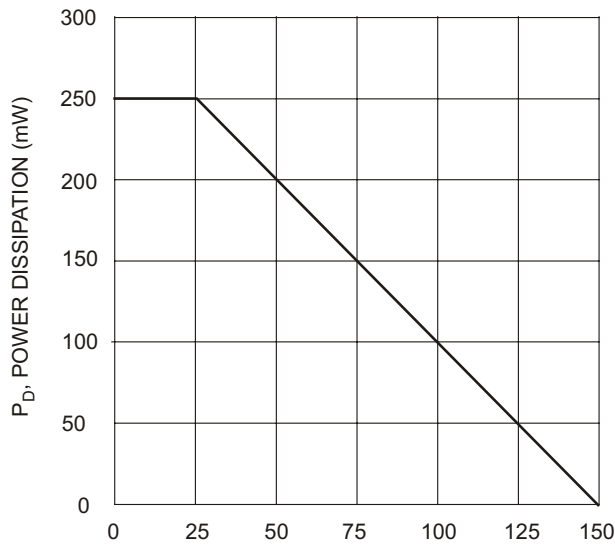
Maximum Ratings @Ta=25°C

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	85	V
Continuous Forward Current	I_F	160	mA
Single Diode		140	
Double Diode			
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	4	A
at $t = 1 \mu s$		1	
at $t = 1 ms$		0.5	
at $t = 1 s$			
Power Dissipation	P_D	250	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500	°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	- 65 to + 150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

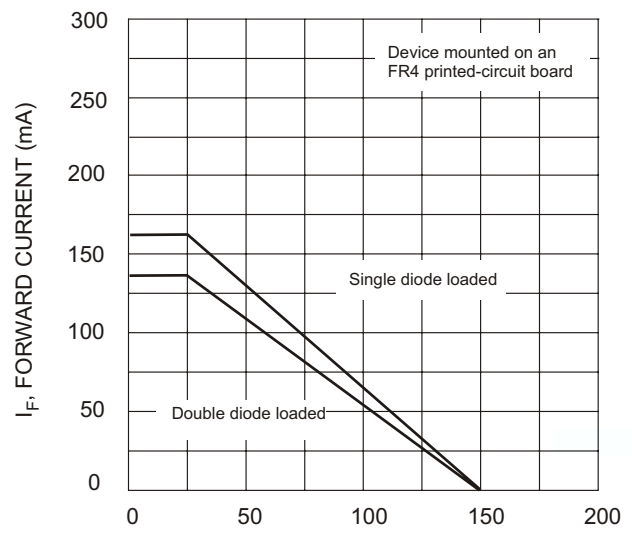
Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu A$	$V_{(BR)R}$	85	-	-	V
Forward Voltage at $I_F = 1 mA$ at $I_F = 10 mA$ at $I_F = 50 mA$ at $I_F = 150 mA$	V_F	- - - -	- - - -	0.9 1 1.1 1.25	V
Reverse Current at $V_R = 75 V$ at $V_R = 75 V, T_j = 150 ^\circ C$	I_R I_R	- -	- -	5 80	nA
Total Capacitance at $V_R = 0, f = 1 MHz$	C_T	-	2	-	pF
Reverse Recovery Time at $I_F = I_R = 10 mA, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$	t_{rr}	-	-	3	μs

Typical Characteristics



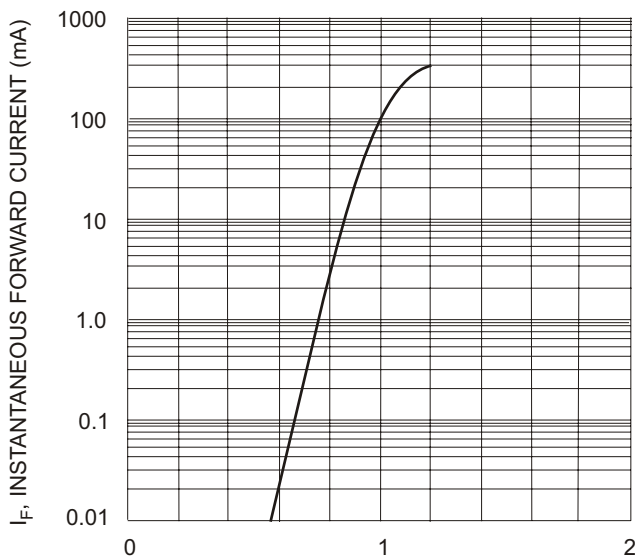
T_A , AMBIENT TEMPERATURE (°C)

Fig. 1 Power Derating Curve



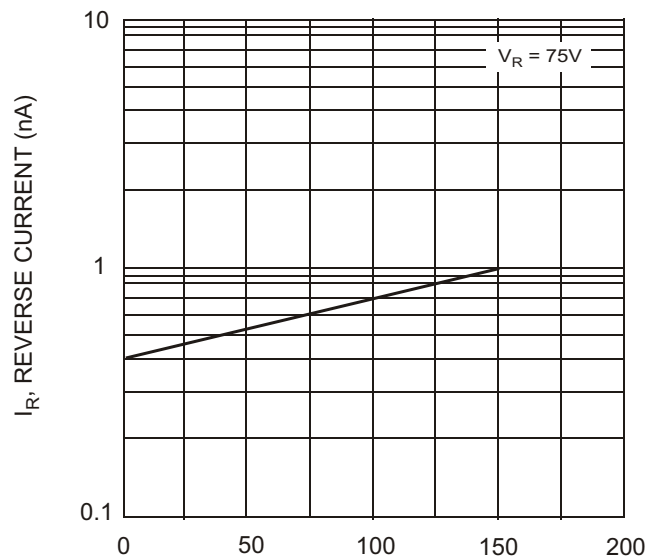
T_A , AMBIENT TEMPERATURE (°C)

Fig. 2 Current Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)

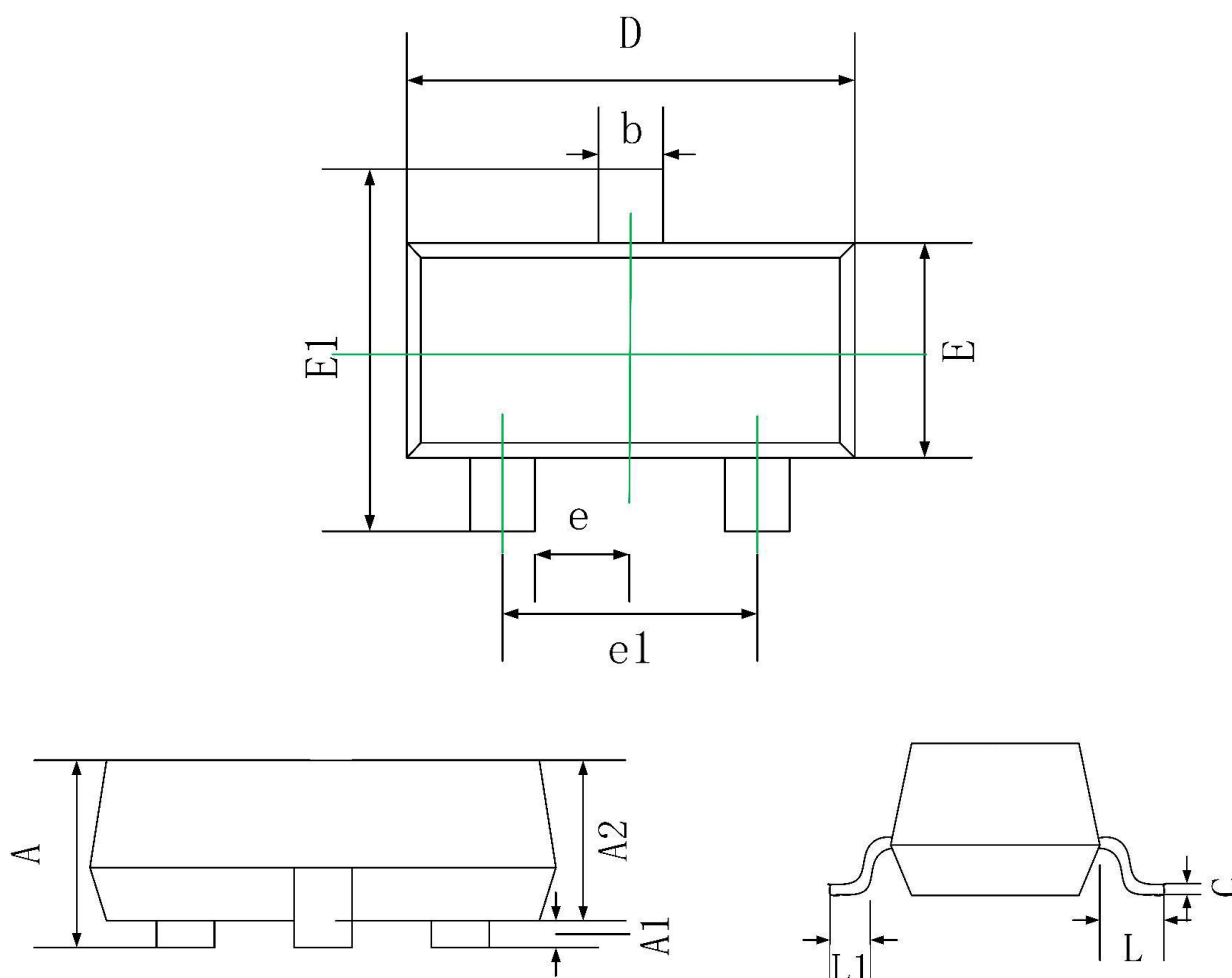
Fig. 3 Typical Forward Characteristics



T_A , AMBIENT TEMPERATURE (°C)

Fig. 4 Typical Reverse Characteristics

SOT-23 Package Information



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020