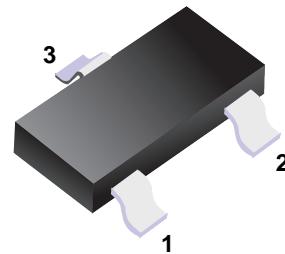


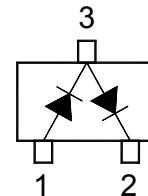
■ Switching Diodes

■ Features

- Very low leakage current
- Medium speed switching times
- Series pair configuration
- Low leakage switching double diode
- For low leakage current applications



■ Simplified outline(SOT-23)



■ Marking

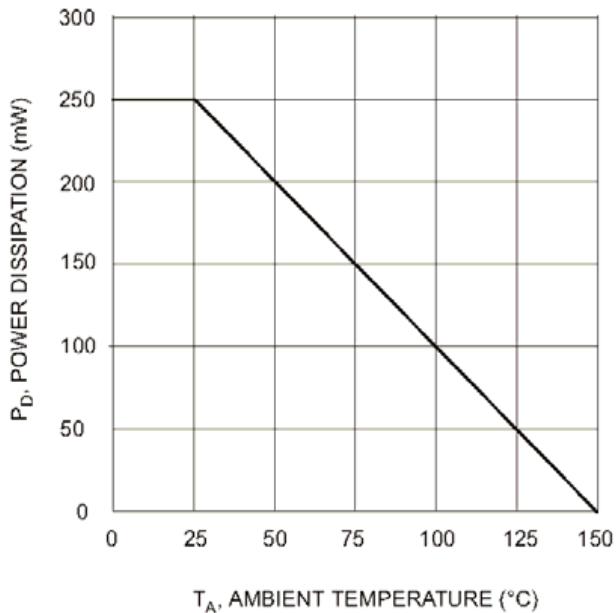
Marking	JY
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■ Absolute Maximum Ratings Ta = 25°C

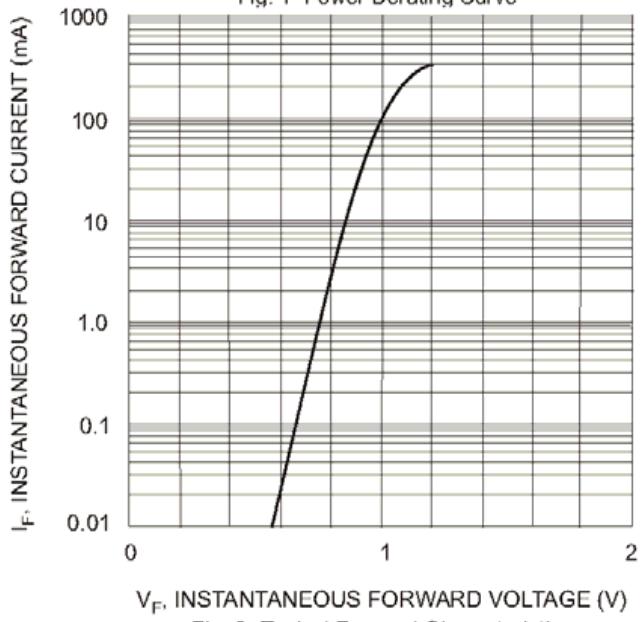
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	85	V
Continuous Reverse Voltage	V _R	85	V
Continuous Forward Current Single Diode Double Diode	I _F	160 140	mA
Repetitive Peak Forward Current	I _{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current at t = 1 µs at t = 1 ms at t = 1 s	I _{FSM}	4 1 0.5	A
Power Dissipation	P _D	250	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	500	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-65 to +150	°C

■ Electrical Characteristics Ta = 25°C

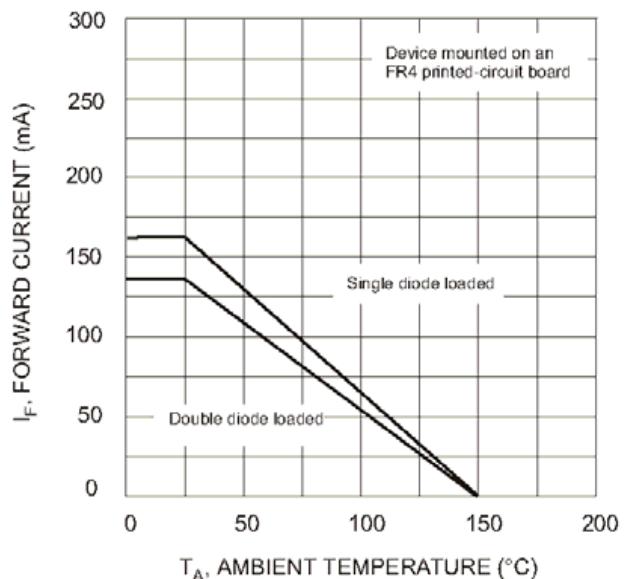
Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 µA	V _{(BR)R}	85	-	-	V
Forward Voltage at I _F = 1 mA at I _F = 10 mA at I _F = 50 mA at I _F = 150 mA	V _F	- - - -	- - - -	0.9 1 1.1 1.25	V
Reverse Current at V _R = 75 V at V _R = 75 V, T _j = 150 °C	I _R	- -	- -	5 80	nA
Total 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 × I _R , R _L = 100 Ω	t _{rr}	-	-	3	µs



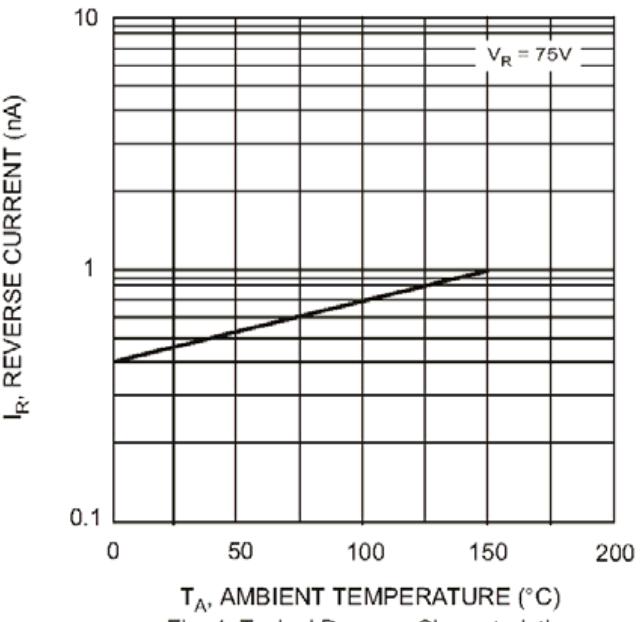
T_A, AMBIENT TEMPERATURE (°C)
Fig. 1 Power Derating Curve



V_F, INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 3 Typical Forward Characteristics

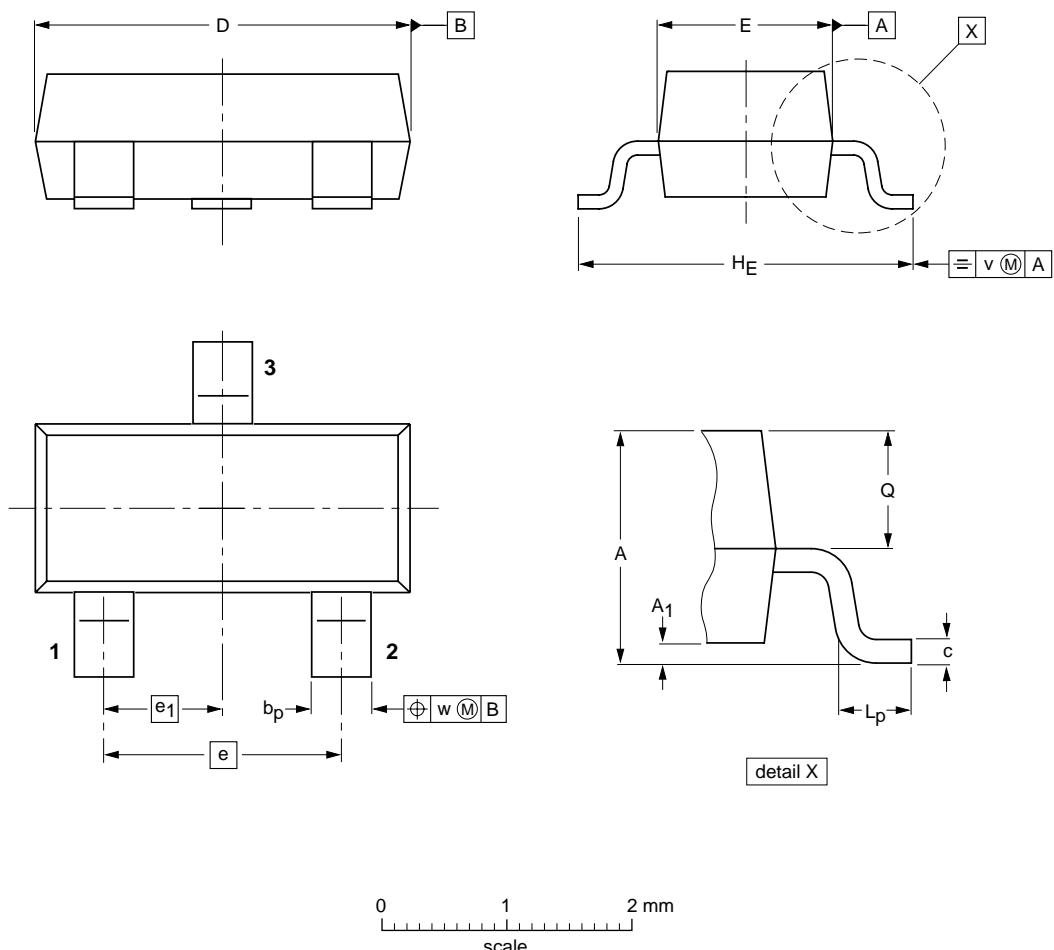


T_A, AMBIENT TEMPERATURE (°C)
Fig. 2 Current Derating Curve



T_A, AMBIENT TEMPERATURE (°C)
Fig. 4 Typical Reverse Characteristics

■ SOT-23



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max.	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1