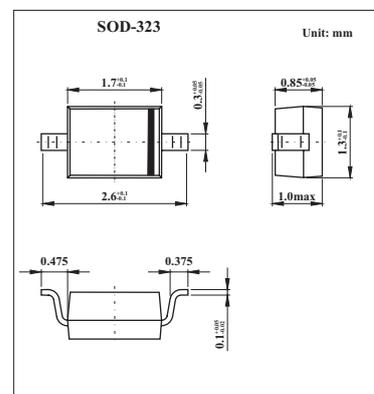


FAST SWITCHING DIODES

■ Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Non-repetitive peak reverse voltage	V _{RM}	100	V
Peak repetitive reverse voltage	V _{RRM}	75	V
Working peak reverse voltage	V _{RWM}		
DC blocking voltage	V _R		
RMS reverse voltage	V _{R(RMS)}	53	V
Average rectified output current	I _O	150	mA
Forward continuous current	I _{FM}	300	mA
Non-repetitive peak forward surge current@ t = 1.0s	I _{FSM}	1.0	A
@ t = 1.0 us		2.0	
Power dissipation *	P _D	350	mW
Typical thermal resistance, junction to ambient air*	R _{θJA}	625	K/W
Operating and storage temperature range	T _j , T _{stg}	-65 to +150	°C

* Part mounted on FR-4 PC board with recommended pad layout,

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R = 1.0 μA	75			V
Forward voltage	V _{FM}	I _F = 10mA			0.715	V
		I _F = 10mA			0.855	
		I _F = 50mA			1.0	
		I _F = 150mA			1.25	
Peak reverse current	I _{RM}	V _R = 75V			1.0	μA
		V _R = 75V, T _j = 150°C			50	
		V _R = 25V, T _j = 150°C			30	nA
		V _R = 20V			25	
Capacitance	C _T	V _R = 0, f = 1.0MHz			2.0	pF
Reverse recovery time	t _{rr}	I _F = I _R = 10mA, I _{rr} = 0.1 × I _R , R _L = 100 Ω			4.0	ns

■ Typical Characteristics

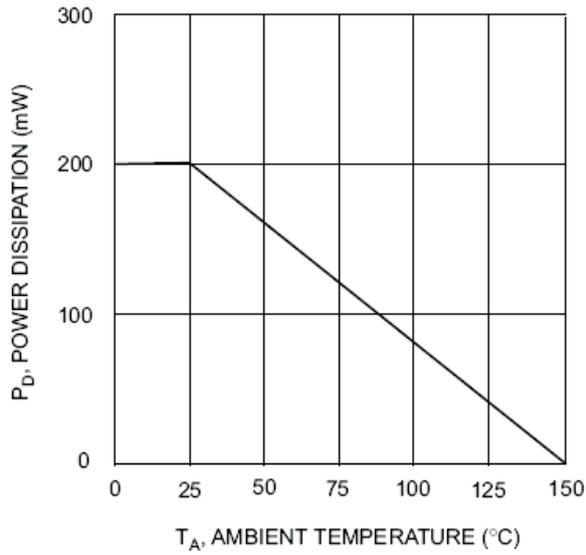


Fig.1 Power Derating Curve

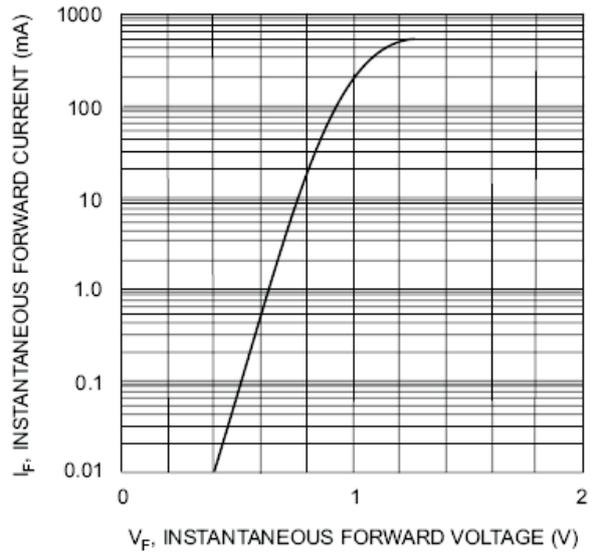


Fig.2 Forward Characteristics

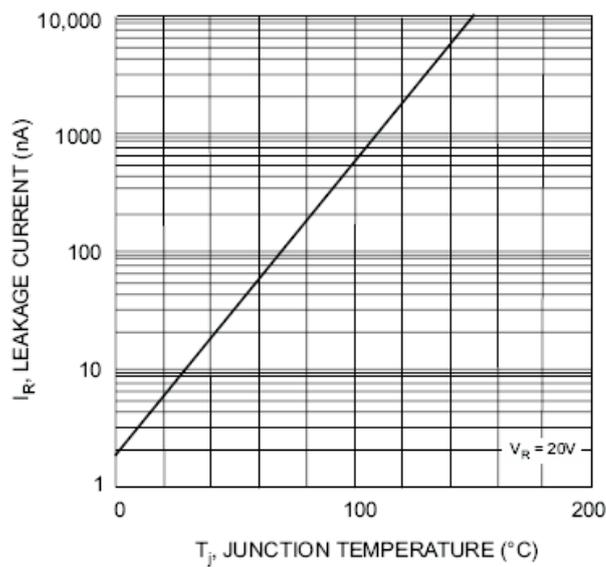


Fig. 3 Leakage Current vs Junction Temperature