

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High conductance

MECHANICAL DATA

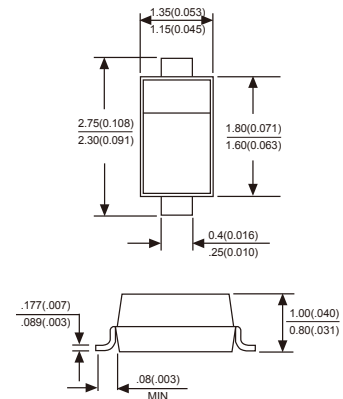
Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Marking: T4

SOD-323



Dimensions in millimeters and (inches)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics, Single diode @T_A=25°C

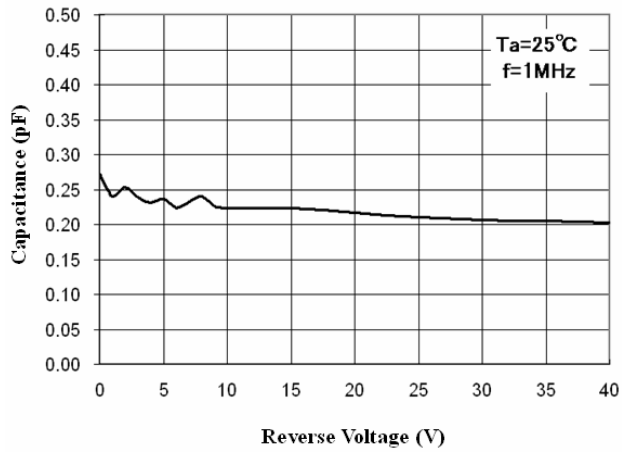
PARAMETER	SYMBOLS	Limits	UNITS
Peak repetitive peak reverse voltage	V _{RRM}	75	V
Working peak reverse voltage	V _{RWM}		
DC Blocking voltage	V _R		
RMS Reverse voltage	V _{R(RMS)}	53	V
Forward continuous current	I _{FM}	300	mA
Average rectified output current	I _O	150	mA
Peak forward current @=1.0*s	I _{FSM}	2.0	A
@=1.0s		1.0	
Power dissipation	P _d	200	mW
Thermal resistance junction to ambient	R _{θJA}	625	K/W
Junction temperature	T _j	125	°C
Storage temperature	T _{STG}	-55 to +150	°C
Non-Repetitive peak reverse voltage	V _{RM}	100	V

Electrical ratings @T_A=25°C

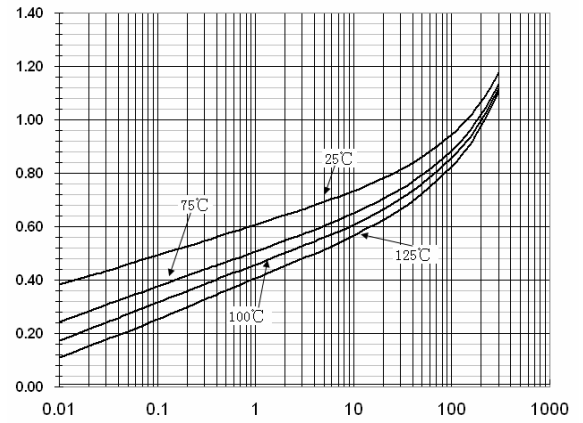
PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _{F1}			0.715	V	I _F =1.0mA
	V _{F2}			0.855	V	I _F =10mA
	V _{F3}			1.0	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
Reverse current	I _{R1}			1	uA	V _R =75V
	I _{R2}			25	nA	V _R =20V
Capacitance between terminals	C _T			2	pF	V _R =0V, f=1.0MHz
Reverse recovery time	t _{rr}			4	ns	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω



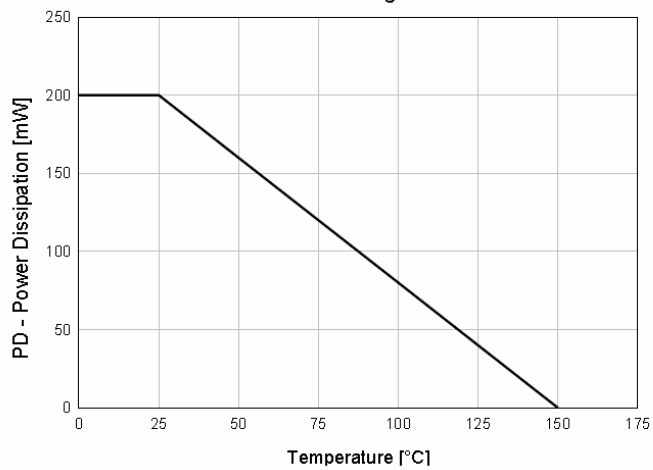
Total Capacitance



Forward Voltage vs Ambient Temperature



Power Derating Curve



Reverse Current vs Reverse Voltage

