

RoHS Compliant Product
A suffix of "-C" specifies and halogen-free

FEATURES

- Schottky barrier rectifier
- Guardring protection
- Low forward voltage
- Reverse energy tested

MECHANICAL DATA

- Case: SOD-323T molded plastic body
- Polarity: Color band denotes cathode end
- Mounting position: Any

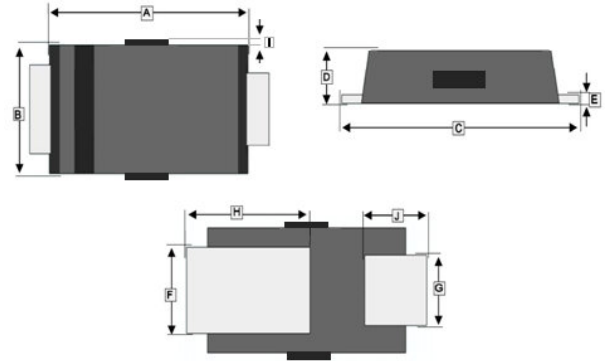
MARKING CODE



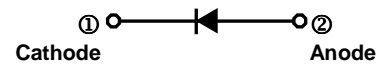
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323T	3K	7' inch

SOD-323T



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.75	2.30	F	0.65	0.98
B	1.20	1.40	G	0.45	0.75
C	2.30	2.70	H	1.10	1.55
D	0.55	0.75	J	0.40	0.80
E	0.10	0.30			



MAXIMUM RATINGS (T_A=25°C unless otherwise specified.)

Parameter	Symbol	Rating	Unit
Recurrent Peak Reverse Voltage	V _{RRM}	40	V
RMS Voltage	V _{RMS}	28	V
Reverse Voltage	V _R	40	V
Forward Rectified Current	I _{F(AV)}	1	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	22	A
Typical Thermal Resistance, Junction to Lead ¹	R _{θJL}	40	°C/W
Typical Thermal Resistance, Junction to Ambient ²	R _{θJA}	280	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 ~ 150	°C

Note:

1. Mounted on an FR-4 PCB, single-sided copper, with 48cm² copper pad area.
2. Mounted on an FR-4 PCB, single-sided copper, mini pad.

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Rating			Unit		
		Min.	Typ.	Max.			
Breakdown Voltage @ I _R =1mA	V _{BR}	40	-	-	V		
Forward Voltage	V _F	I _F =0.7A	T _A =25°C	-	0.49	-	V
				I _F =1A	-	0.52	
		I _F =0.7A	T _A =125°C	-	0.4	-	
				I _F =1A	-	0.44	
Reverse Current (Max.)	I _R	V _R =32V	T _A =25°C	-	0.8	-	μA
				V _R =40V	-	-	
		V _R =40V	T _A =125°C	-	0.8	-	mA

CHARACTERISTIC CURVES

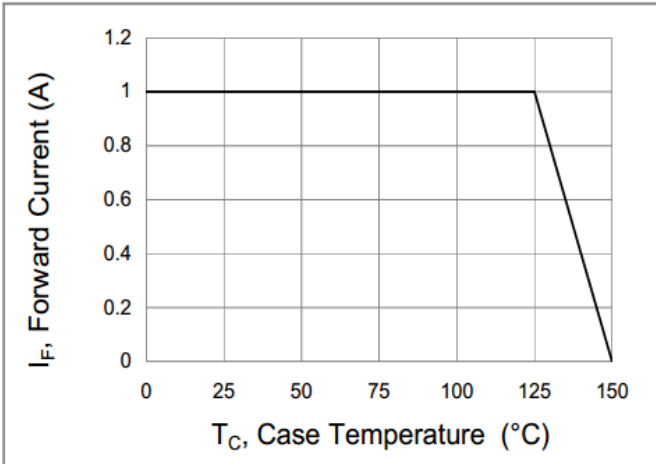


Fig.1 Forward Current Derating Curve

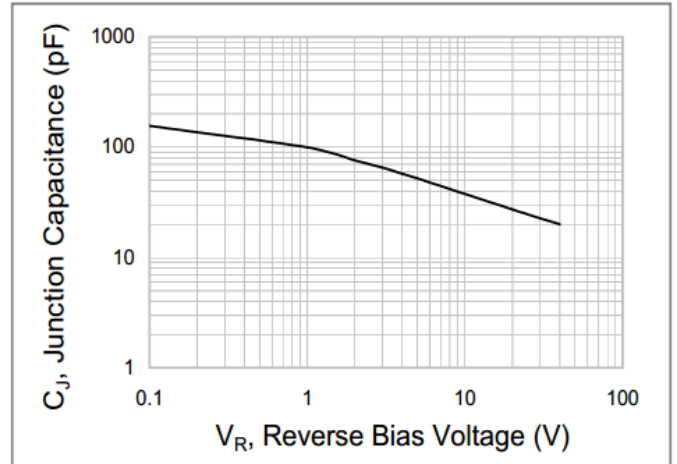


Fig.2 Typical Junction Capacitance

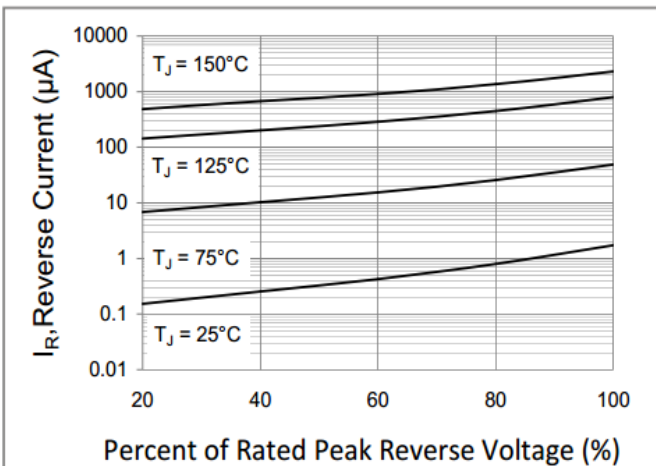


Fig.3 Typical Reverse Characteristics

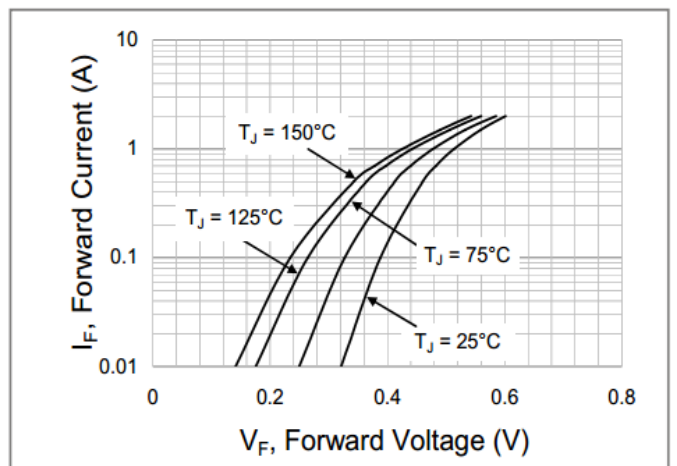


Fig.4 Typical Forward Characteristics