

RoHS Compliant Product

A suffix of "-C" specifies and halogen-free

FEATURES

- Schottky barrier rectifier
- Guardring protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance

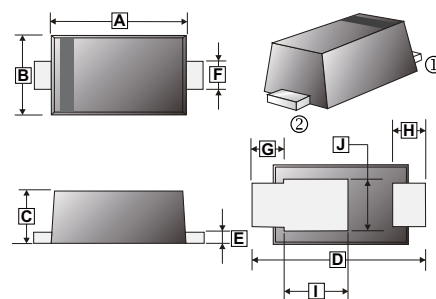
MECHANICAL DATA

- Case: SOD-123T molded plastic body
- Polarity: Color band denotes cathode end
- Mounting position: Any

PACKAGE INFORMATION

Package	MPQ	LeaderSize
SOD-123T	3K	7' inch

SOD-123T



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	2.90	F	0.70	0.90
B	1.75	1.95	G	0.75	0.85
C	0.90	1.00	H	0.75	0.85
D	3.60	3.80	I	1.28	1.32
E	0.20 Typ.		J	1.08	1.12



MARKING CODE

Part Number	Marking Code	Part Number	Marking Code
SM22T	S22	SM26T	S26
SM23T	S23	SM28T	S28
SM24T	S24	SM29T	S29
SM25T	S25	SM210T	S2A

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$ unless otherwise specified.)

Parameter	Symbol	Part Number								Units	Test Conditions
		SM 22T	SM 23T	SM 24T	SM 25T	SM 26T	SM 28T	SM 29T	SM 210T		
Recurrent Peak Reverse Voltage (Max.)	V _{RRM}	20	30	40	50	60	80	90	100	V	
RMS Voltage (Max.)	V _{RMS}	14	21	28	35	42	56	63	70	V	
Reverse Voltage (Max.)	V _R	20	30	40	50	60	80	90	100	V	
Forward Voltage (Max.)	V _F	0.50			0.75		0.85			V	I _{FM} =2.0A (Note 1)
Forward Rectified Current (Max.)	I _{F(AV)}	2								A	T _L =90°C
Peak Forward Surge Current	I _{FSM}	50								A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)
Reverse Current (Max.)	I _R	0.4					0.03			mA	T _J =25°C
		10					5				T _J =125°C
Thermal Resistance (Max.)	R _{θJL}	28								°C/W	Junction to Lead
Operating Temperature Range	T _J	-55 ~ 125								°C	
Storage Temperature Range	T _{STG}	-55 ~ 150								°C	

Note:

1. Pulse test : Pulse width 300 μs , duty cycle 1%

CHARACTERISTIC CURVES

FIG.1 – FORWARD DERATING CURVE

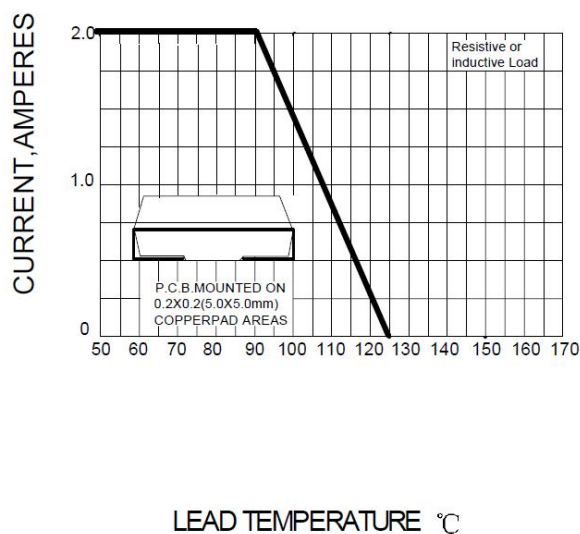


FIG.2– PEAK FORWARD SURGE CURRENT

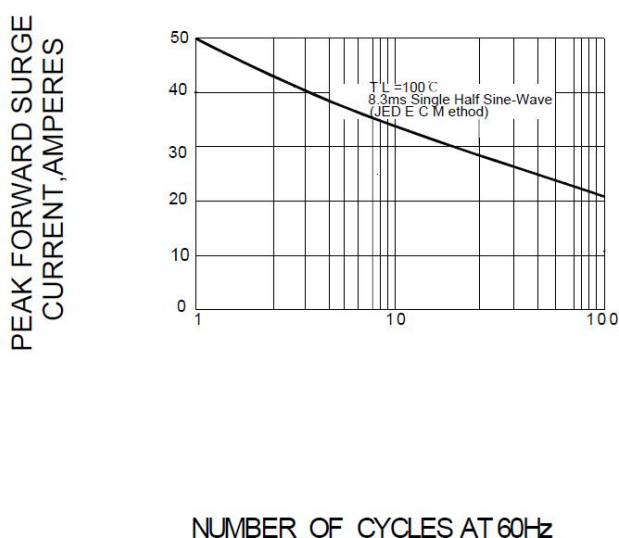


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

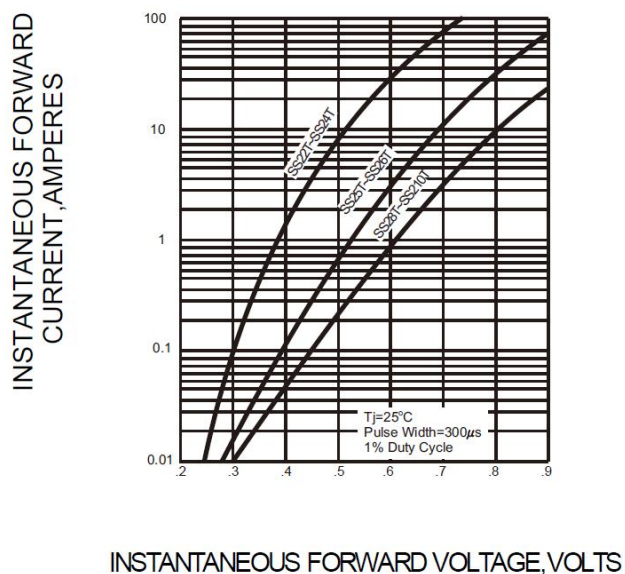


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

