

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

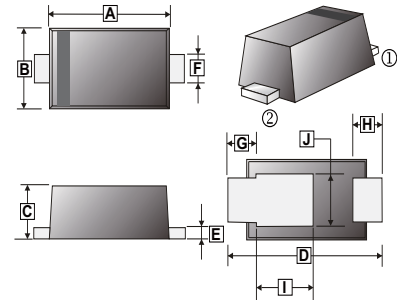
FEATURES

- 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

SOD-123T



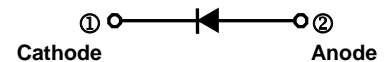
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123T	3K	7 inch

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 / 22T	SM26T	S26 / 26T
SM23T	S23 / 23T	SM28T	S28 / 28T
SM24T	S24 / 24T	SM29T	S29 / 29T
SM25T	S25 / 25T	SM210T	S2A / 2AT



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

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

Note:

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

CHARACTERISTIC CURVES

FIG.1 – FORWARD DERATING CURVE

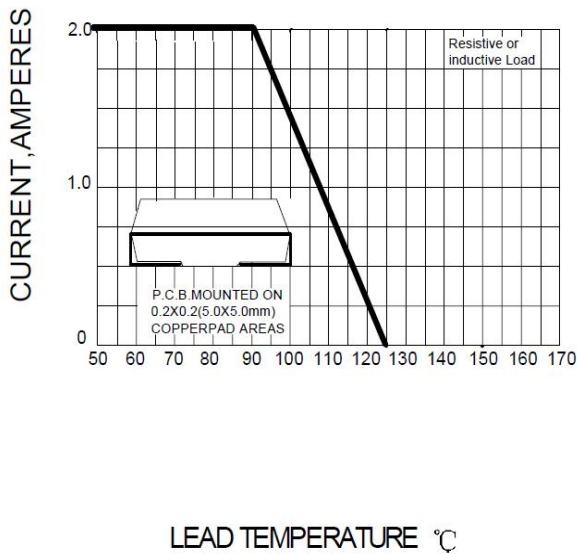


FIG.2– PEAK FORWARD SURGE CURRENT

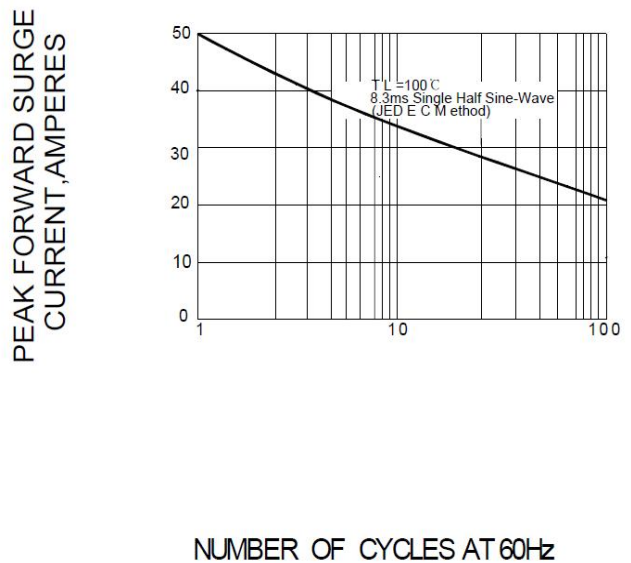


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

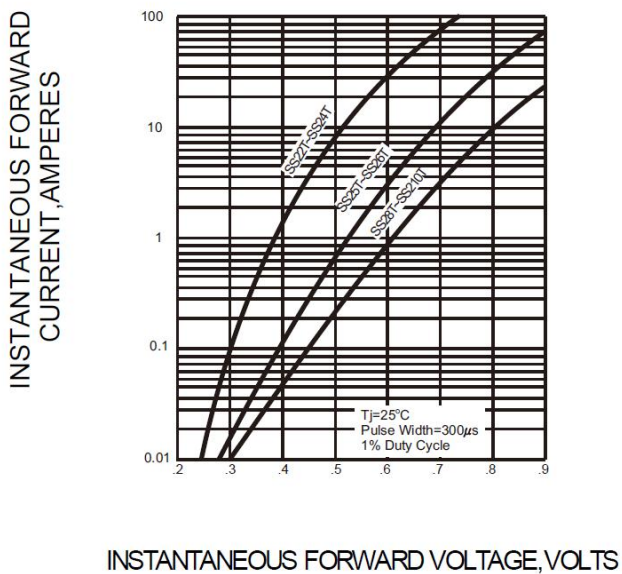


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

