



YEA SHIN TECHNOLOGY CO., LTD

SM140WT

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE- 40 Volts CURRENT- 1.0 Amperes



**FEATURES**

- Low reverse current
- Low forward voltage drop
- High efficiency

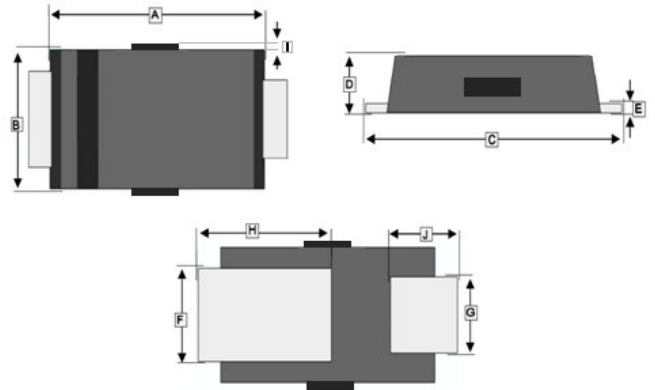
**MARKING**

EV

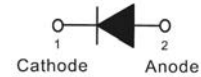
**PACKAGE INFORMATION**

Package	MPQ	Leader Size
SOD-323WT	3K	7 inch

**SOD-323WT**



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.1	2.3	F	0.7	0.98
B	1.2	1.4	G	0.55	0.75
C	2.3	2.7	H	1.1	1.5
D	0.63	0.73	I	-	0.08
E	0.11	0.19	J	0.55	0.75



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS** (T<sub>A</sub>=25°C unless otherwise specified.)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum Average Rectified Forward Current	I <sub>O</sub>	1	A
Non-Repetitive Peak Forward Surge Current@ t=8.3 ms	I <sub>FSM</sub>	22	A
Maximum Instantaneous Forward Voltage@ I <sub>F</sub> =1A	V <sub>F</sub>	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage@ V <sub>R</sub> =40V	I <sub>R</sub>	0.1	mA
Typical Thermal Resistance from Junction to Ambient	R <sub>θJA</sub> <sup>1</sup>	220	°C/W
	R <sub>θJA</sub> <sup>2</sup>	250	
Typical Thermal Resistance from Junction to Lead	R <sub>θJL</sub> <sup>1</sup>	50	
Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55~150	°C

Notes:

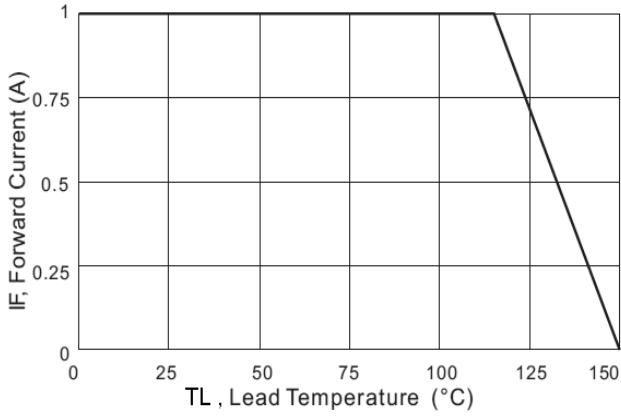
1. Mounted on P.C Board with (15mm x 50mm) copper pad areas.
2. Mounted on a FR4 PCB, single-sided copper, mini pad.

# DEVICE CHARACTERISTICS

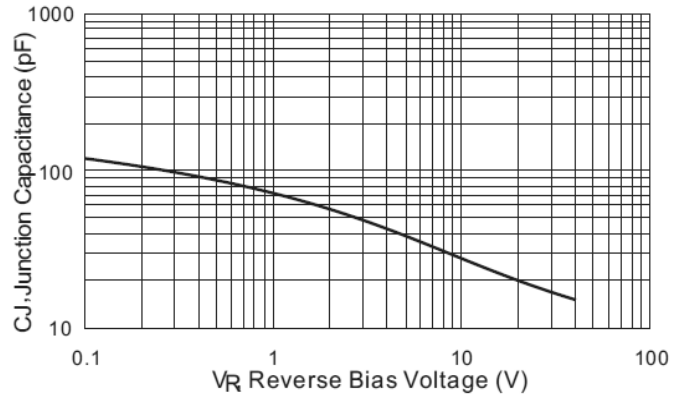
## SM140WT

### CHARACTERISTIC CURVES

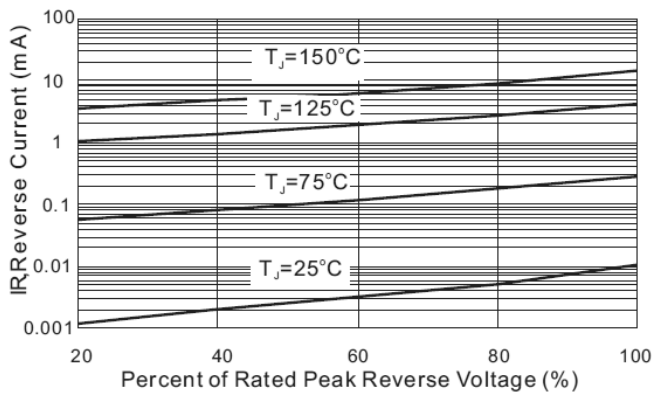
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**

