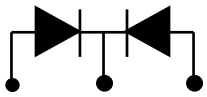
SCHOTTKY BARRIER RECTIFIERS

Typical Reference Data

VRRM= 100V
IF(AV)= 60A

1 2 3

Polarity



FEATURES

- Metal of silicon rectifier,majority carrier conducton
- Guard-Ring for Stress Protection.
- Low power loss, high efficiency
- High current capability
- High surge capacity
- Plastic package has UL flammability classification 94V-0

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ambient temperature unless otherwise specified.
Single phase, half wave, 60HZ, resistive or inductive load.
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	SS06C10E	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	V
Maximum DC Blocking Voltage	Vcc	100	V
Maximum Average Forward Rectified Current	I(AV)	60	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	IFSM	400	A
Maximum Forward Voltage at 30A DC	VF	0.84	V
Maximum DC Reverse Current @TC=25℃ at Rated DC Blocking Voltage @TC=125℃	IR	0.01 20	MA
Typical Thermal Resistance	ROJC	1.4	℃/W
Operating Temperature Range	TJ	-55to+175	℃
Storage Temperature Range	TSTG	-55to+175	℃

RATING AND CHARACTERISTIC CURVES

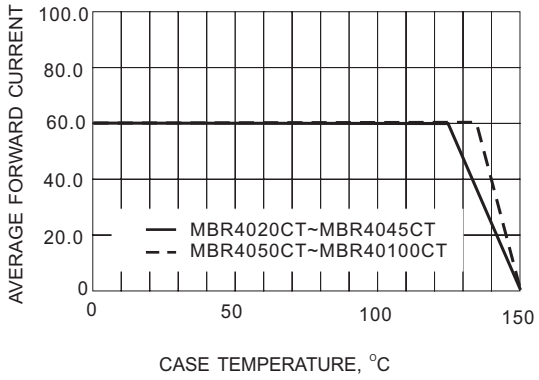


Fig.1- FORWARD CURRENT DERATING CURVE

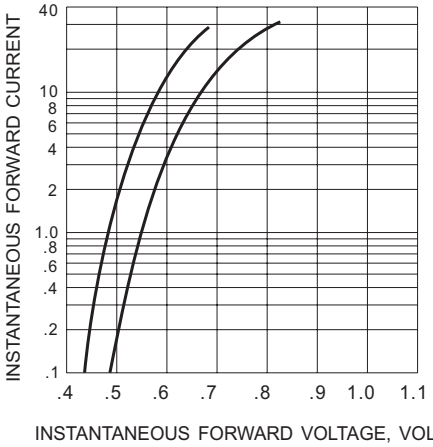


Fig.2- TYPICAL INSTANEOUS FORWARD CHARACTERISTIC

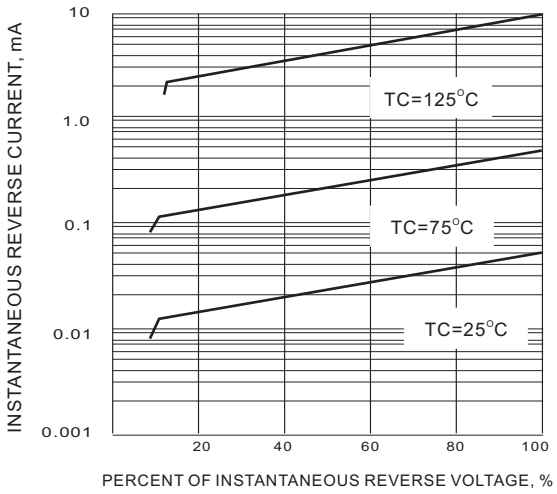


Fig.3- TYPICAL REVERSE CHARACTERISTICS

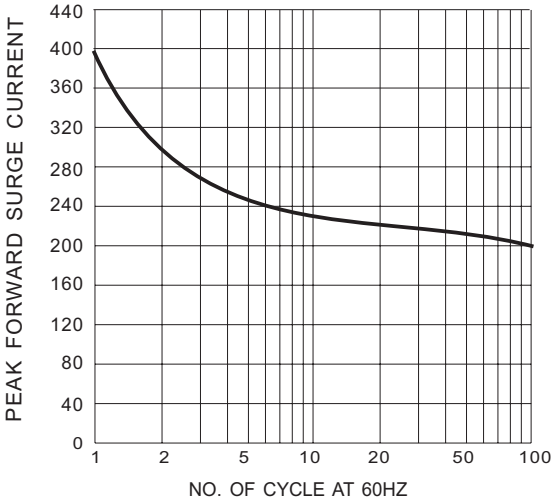
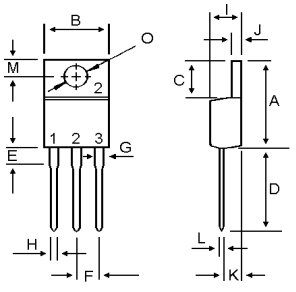


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT

MECHANICAL DATA

- Case : TO-220AB molded plastic
- Polarity : As marked on the body
- Mounting position : Any



DIM	MILLIMETERS	
	MIN	MAX
A	14.68	15.32
B	9.78	10.42
C	5.02	6.52
D	13.06	14.62
E	3.57	4.07
F	2.42	2.66
G	1.12	1.36
H	0.72	0.96
I	4.22	4.98
J	1.14	1.38
K	2.20	2.98
L	0.33	0.55
M	2.48	2.98
O	3.70	3.90