

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - **200** Volts
FORWARD CURRENT - **20** Amperes

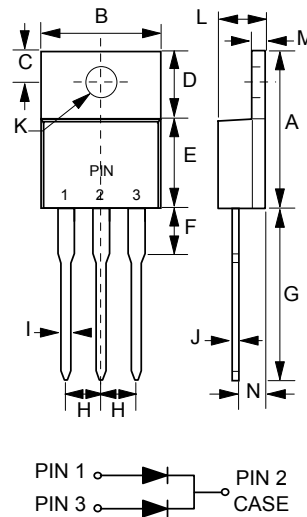
FEATURES

- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- Low power loss, high efficiency
- Low leakage current
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- IEC 61000-4-2, level 4 (ESD), >15KV (air)

MECHANICAL DATA

- Case : TO-220AB molded plastic
- Polarity : As marked on the body
- Weight : 0.08 ounces, 2.24 grams
- Mounting position : Any
- Max. mounting torque = 0.5 N.m (5.1 Kgf.cm)

TO-220AB



TO-220AB		
DIM.	MIN.	MAX.
A	14.22	15.88
B	9.65	10.67
C	2.54	3.43
D	5.84	6.86
E	8.26	9.28
F	-	6.35
G	12.70	14.73
H	2.29	2.79
I	0.51	1.14
J	0.30	0.64
K	3.53 \varnothing	4.09 \varnothing
L	3.56	4.83
M	1.14	1.40
N	2.03	2.92

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	MBR20200CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	200	V
Maximum RMS Voltage	VRMS	140	V
Maximum DC Blocking Voltage	VDC	200	V
Maximum Average Forward Rectified Current (See Fig.1) $T_C = 120^\circ C$	I(AV)	20	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	180	A
Voltage Rate of Change (Rated VR)	dv/dt	10000	V/us
Maximum Forward Voltage (Note 1) IF=10A @ $T_J = 25^\circ C$ IF=10A @ $T_J = 125^\circ C$ IF=20A @ $T_J = 25^\circ C$ IF=20A @ $T_J = 125^\circ C$	VF	0.92 0.75 1.00 0.86	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_J = 25^\circ C$ @ $T_J = 125^\circ C$	IR	8 5	μA mA
Typical Thermal Resistance (Note 2)	R θ JC	2.0	$^\circ C/W$
Typical Junction Capacitance per element (Note 3)	CJ	250	pF
Operating Temperature Range	TJ	-65 to +175	$^\circ C$
Storage Temperature Range	TSTG	-65 to +175	$^\circ C$

- NOTES : 1. 300us Pulse Width, 2% Duty Cycle.
2. Thermal Resistance Junction to Case.
3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

FIG.1 - FORWARD CURRENT DERATING CURVE

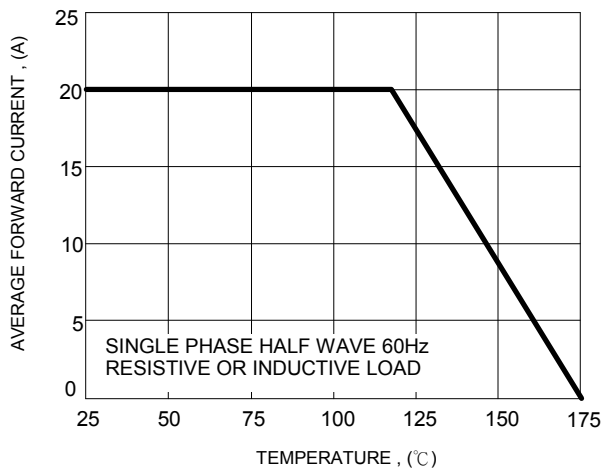


FIG.2 - MAXIMUM NONREPETITIVE SURGE CURRENT

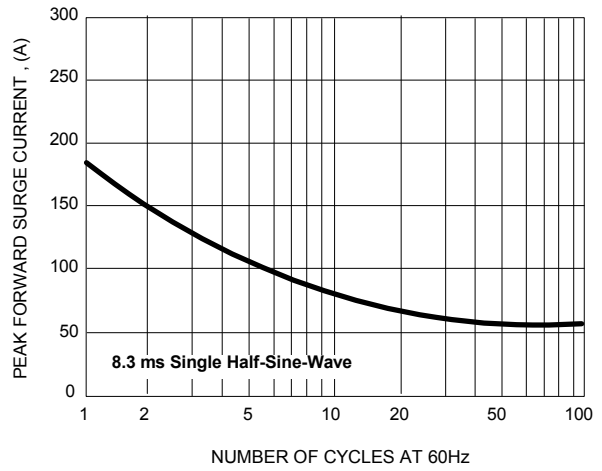


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

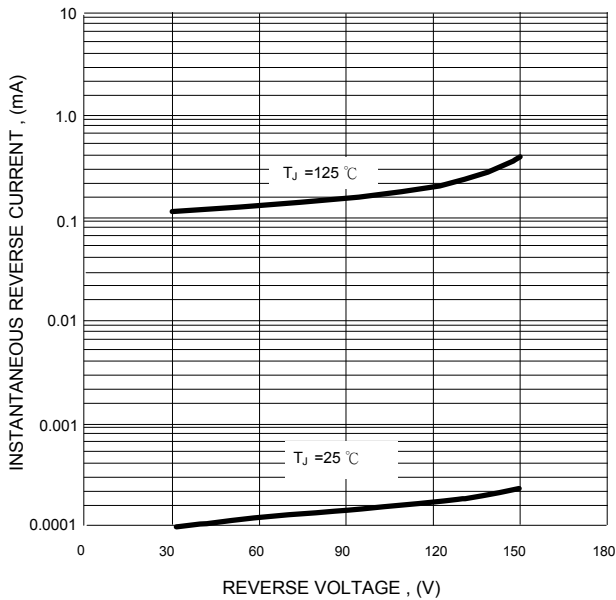


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

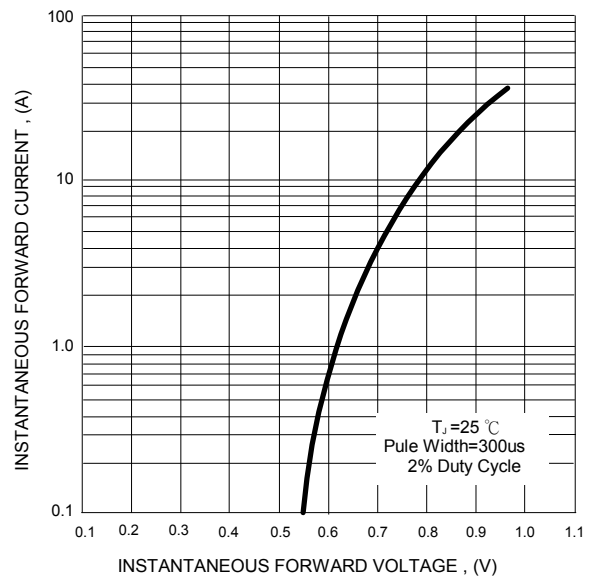
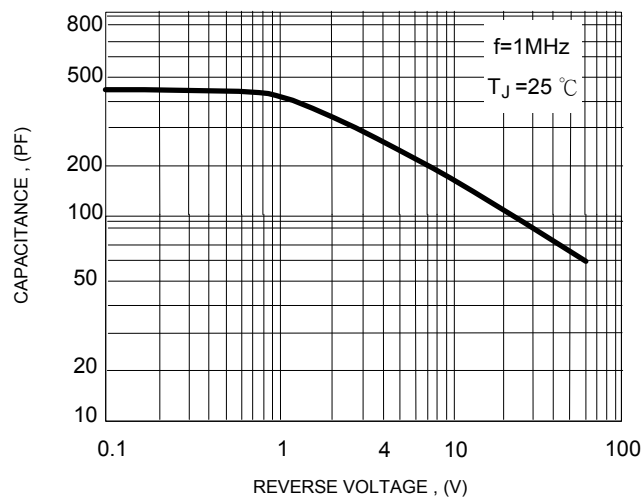


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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