

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 200 Volts FORWARD CURRENT - 20 Amperes

TO-220AB

FEATURES

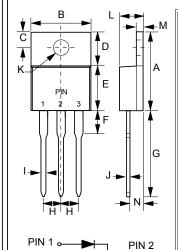
- Metal of silicon rectifier, majority carrier conducton
- Guard ring for transient protection
- Low power loss, high efficiency
- Low leakage current
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- IEC 61000-4-2, level 4 (ESD), >15KV (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				
DIM.	MIN.	MAX.		
Α	14.22	15.88		
В	9.65	9.65 10.67		
С	2.54	3.43		
D	5.84	6.86		
Е	8.26	9.28		
F	-	6.35		
G	12.70	14.73		
Н	2.29	2.79		
I	0.51	1.14		
J	0.30	0.64		
K	3.53 Ø	4.09 Ø		
L	3.56	4.83		
М	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
	VRRM		V
Maximum Recurrent Peak Reverse Voltage		200	-
Maximum RMS Voltage	VRMS	140	V
Maximum DC Blocking Voltage	VDC	200	V
Maximum Average Forward Rectified Current (See Fig.1) Tc =120°C	I(AV)	20	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	180	А
Voltage Rate of Change (Rated VR)	dv/dt	10000	V/us
IF=10A @ TJ=25°C Maximum Forward IF=10A @ TJ=125°C IF=20A @ TJ=25°C IF=20A @ TJ=125°C IF=20A @ TJ=125°C	VF	0.92 0.75 1.00 0.86	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ = 125°C @TJ = 125°C	lr Ir	8 5	uA mA
Typical Thermal Resistance (Note 2)	Rejc	2.0	°C/W
Typical Junction Capacitance per element (Note 3)	Сл	250	pF
Operating Temperature Range	TJ	-65 to +175	°C
Storage Temperature Range	Tstg	-65 to +175	°C

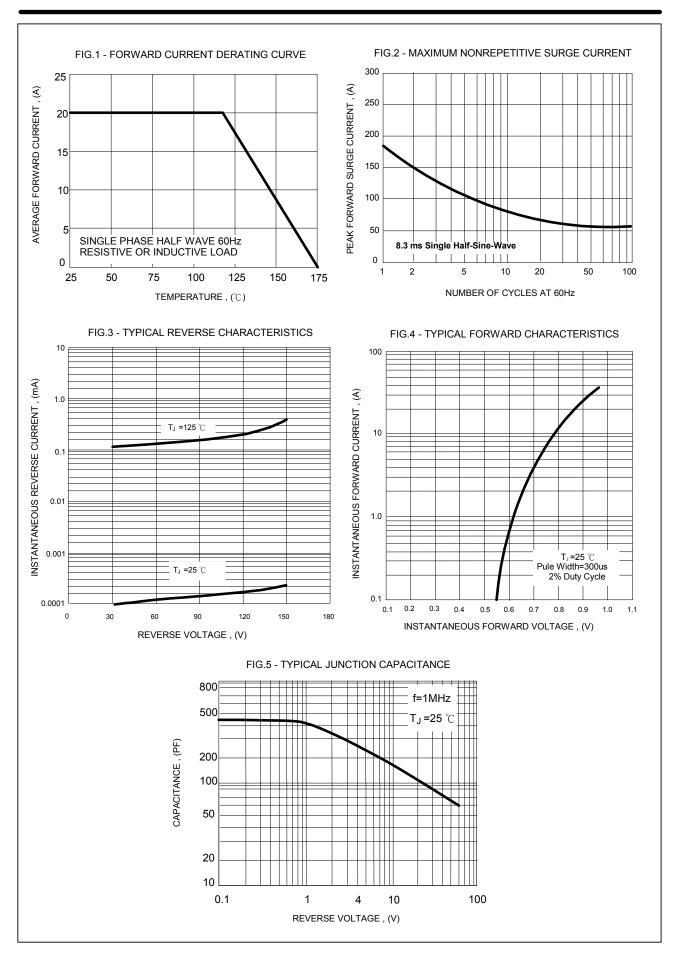
NOTES: 1. 300us Pulse Width, 2% Duty Cycle.

2. Thermal Resistance Junction to Case.

3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

REV. 5, Jul-2012, KTHC22







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