

MBR3020PT~MBR30100PT

30 AMPERES SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 100 Volts **CURRENT** 30 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability
- Guardring for overvoltage protection
- For use in low voltage,high frequency inverters free wheeling , and polarity protection applications.
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

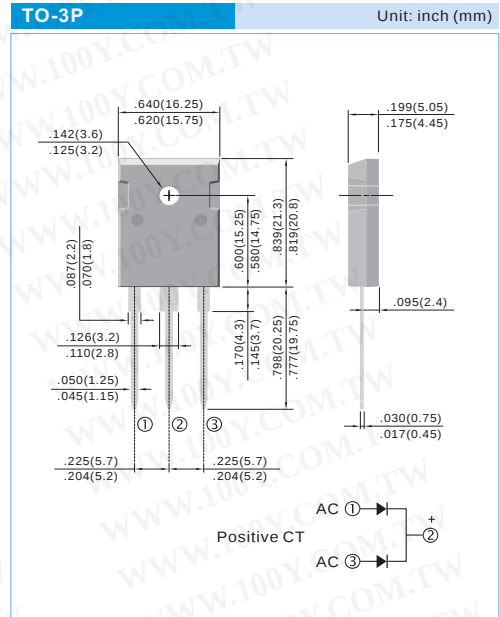
Case: TO-3P molded plastic

Terminals: solder plated, solderable per MIL-STD-750, Method 2026

Polarity: As marked.

Mounting Position: Any

Weight: 0.2 ounces, 5.6 grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBR3020PT	MBR3030PT	MBR3040PT	MBR3045PT	MBR3050PT	MBR3060PT	MBR3080PT	MBR30100PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	45	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	31.5	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	45	50	60	80	100	V
Maximum Average Forward Current (See fig.1)	I _{AV}	30								A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	200								A
Maximum Forward Voltage at 15A, per leg	V _F	0.65				0.75		0.8		V
Maximum DC Reverse Current Tc=25 °C at Rated DC Blocking Voltage Tc=125°C	I _R	0.1 20								mA
Typical Thermal Resistance	RθJC	1.4								°C / W
Operating Junction Temperature Range	T _J	-50 TO + 150								°C
Storage Temperature Range	T _{STG}	-50 TO + 175								°C

Notes :

Both Bonding and Chip structure are available.

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RATING AND CHARACTERISTIC CURVES

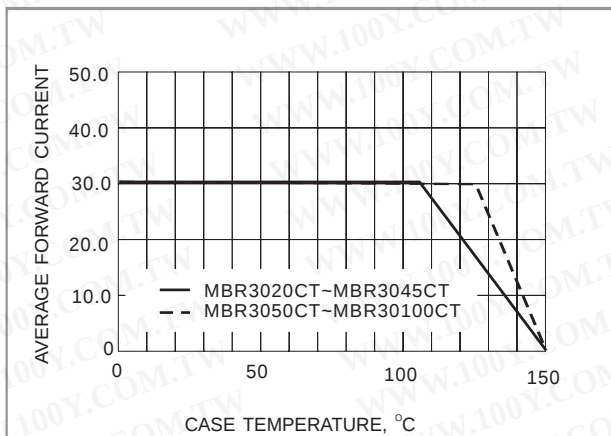


Fig.1- FORWARD CURRENT DERATING CURVE

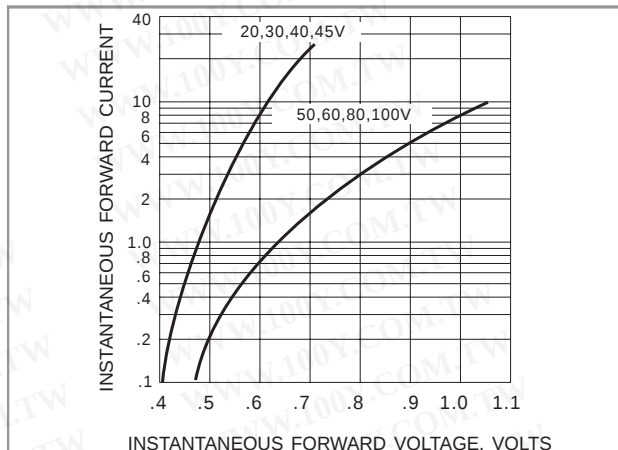


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

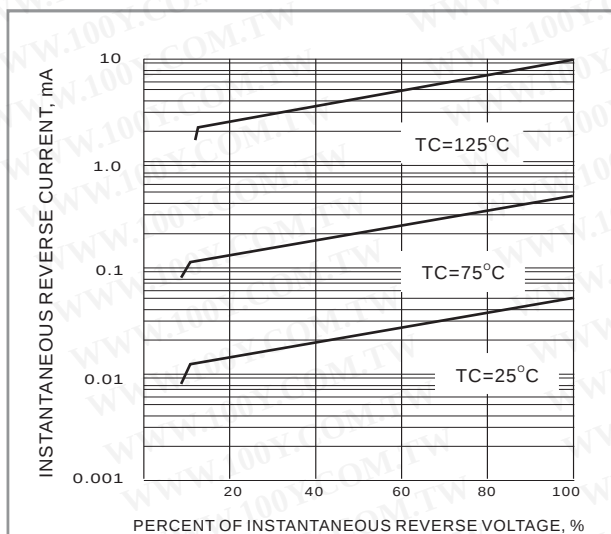


Fig.3- TYPICAL REVERSE CHARACTERISTICS

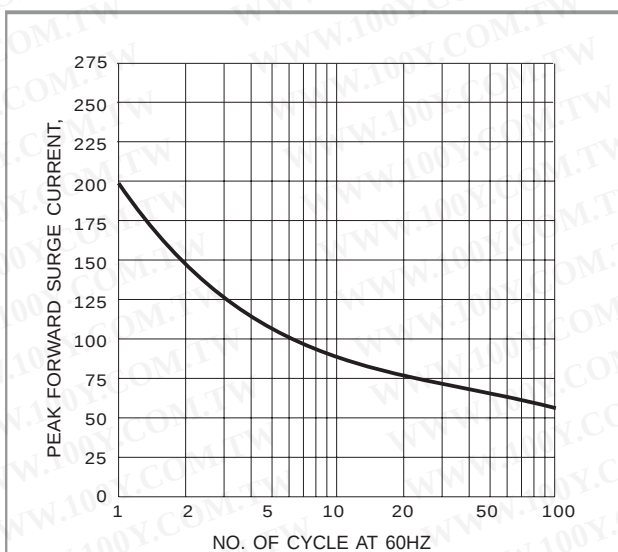


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT

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