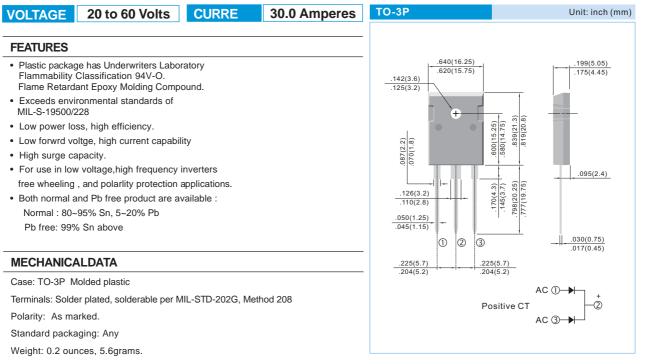




# DATA SHEET

## MBR3020PT~MBR3060PT

## SCHOTTKY BARRIER RECTIFIERS



#### 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	MBR 30 20PT	MBR 30 30PT	MBR 30 35PT	MBR 30 40PT	MBR 30 45PT	MBR 30 50PT	MBR 30 60PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	35	40	45	50	60	V
Maximum RMS Voltage	$V_{\text{RMS}}$	14	21	24.5	28	31.5	35	42	V
Maximum DC Blocking Voltage	$V_{\text{DC}}$	20	30	35	40	45	50	60	V
Maximum Average Forward Current .375"(9.5mm) lead length a t Tc =100	IAV	30							A
Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	275							A
Maximum Forward Voltage at 15A	VF	0.55 0.70V						V	
Maximum DC Reverse Current TA=25 at Rated DC Blocking Voltage TA=100	IR	1.0 100							mA
Maximum Thermal Resistance	Rajc	1.5							/ W

NOTES:

Both Bonding and Chip structure are available.



## RATING AND CHARACTERISTIC CURVES

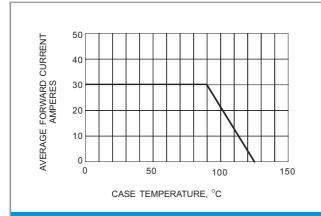
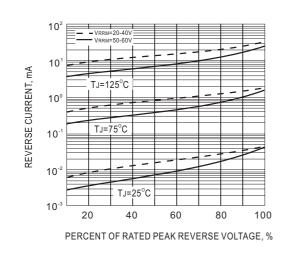


Fig.1- FORWARD CURRENT DERATING CURVE



### Fig.3- TYPICAL REVERSE CHARACTERISTICS

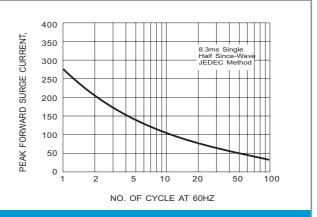


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

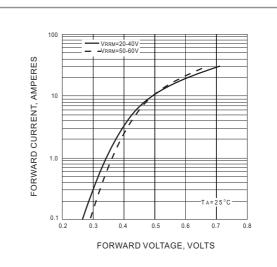


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS