

# MBR3035PT~MBR30200PT

## 30Amp Schottky Barrier Rectifiers

### Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Metal silicon rectifier, majority carrier conduction
- ◆ Low reverse leakage
- ◆ Guardring for overvoltage protection
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals

### Mechanical Data

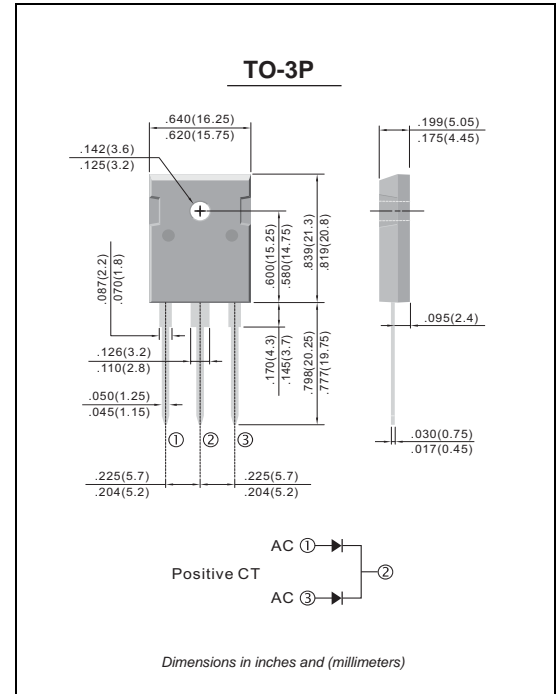
**Case:** JEDEC TO-3P molded plastic body

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

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight :** 0.2 ounce, 5.6 grams



### Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	MBR 3035PT	MBR 3045PT	MBR 3060PT	MBR 3080PT	MBR 30100PT	MBR 30150PT	MBR 30200PT	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	35	45	60	80	100	150	200	VOLTS
Maximum RMS voltage	$V_{RMS}$	24	31	42	56	70	105	150	VOLTS
Maximum DC blocking voltage	$V_{DC}$	35	45	60	80	100	150	200	VOLTS
Maximum average forward rectified current	$I_{(AV)}$	30.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	200.0							Amps
Maximum instantaneous forward voltage at 15A	$V_F$	0.60	0.70	0.85		0.90	0.95	Volts	
Maximum DC reverse current at rated DC blocking voltage	$I_R$	0.5		10.0		2.0		mA	
Typical thermal resistance (NOTE 1)	$R_{\theta JA}$	15.0							C/W
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150							°C



# MBR3035PT THRU MBR30200PT

## Ratings And Characteristic Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

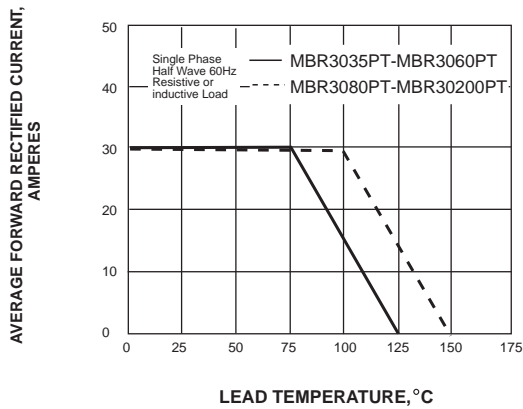


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

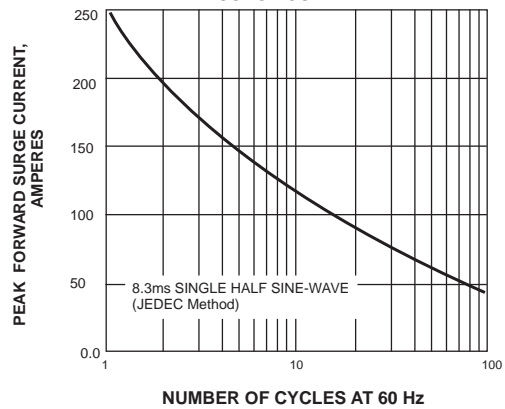


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

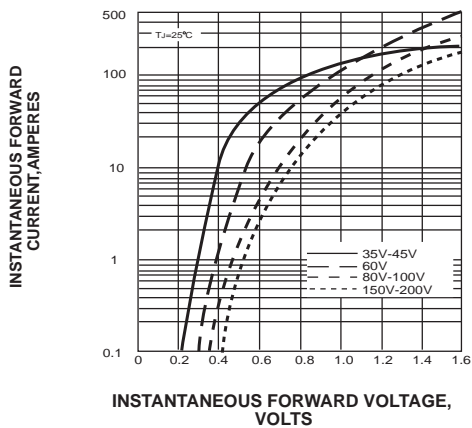


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

