

## SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 30--- 100 V CURRENT: 25.0 A

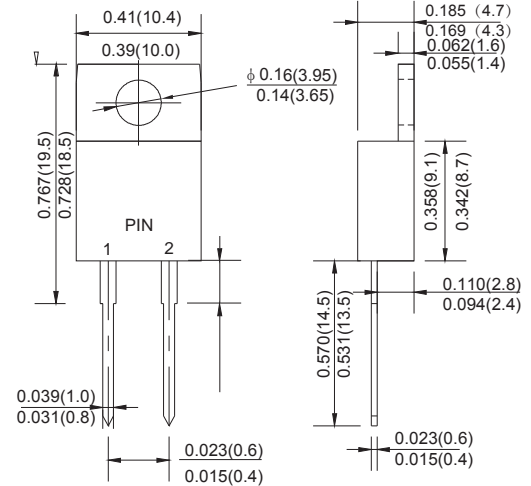
### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling , and polarity protection applications
- Dual rectifier construction
- High temperature soldering guaranteed:260 °C/10 seconds
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

### MECHANICAL DATA

- Case: TO-220AB molded plastic body
- Terminals:Lead solderable per MIL-STD-750,method 2026
- Polarity:Color band denotes cathode end

### TO-220AB



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)Single phase,half wave,60 Hz,resistive or inductive load.

For capacitive load,derate by 20%.

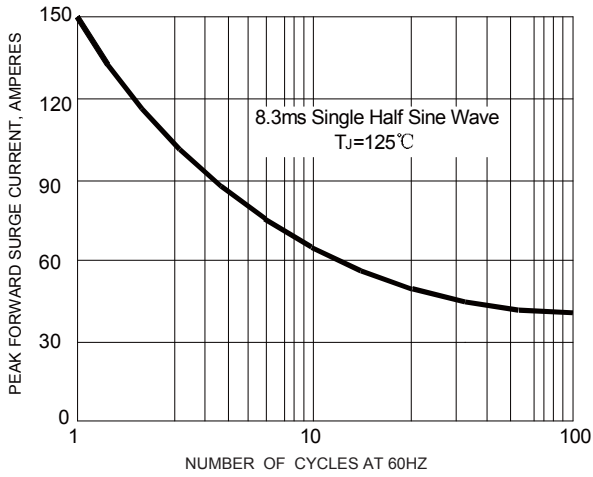
TYPE NUMBER	SYMBOL	MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR	UNI
		2530CT	2535CT	2540CT	2545CT	2550CT	2560CT	2580CT	25100CT	TS
Maximum recurrent peak reverse voltage	$V_{RRM}$	30	35	40	45	50	60	80	100	V
Maximum RMS voltage	$V_{RMS}$	21	25	28	32	35	42	56	70	V
Maximum DC blocking voltage	$V_{DC}$	30	35	40	45	50	60	80	100	V
Maximum Average Forward rectified Current @TC = 130°C	$I_{F(AV)}$	25.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	200.0								A
Maximum forward Voltage (Note 1)	$V_F$	(IF=15A,TC=25°C)				0.75		0.85		V
		(IF=25A,TC=125°C)				0.82		--		
Maximum reverse current at rated DC blocking voltage	$I_R$	@T <sub>A</sub> =25°C				1.0				mA
		@T <sub>A</sub> =100°C				40.0		50.0		
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	1.5								°C/W
Storage Temperature	T <sub>STG</sub>	- 55 ---- + 150								°C
Operation Junction Temperature	T <sub>J</sub>	- 55 ---- + 150								°C

NOTE: 1. Pulse test:300µs pulse width,1% duty cycle.

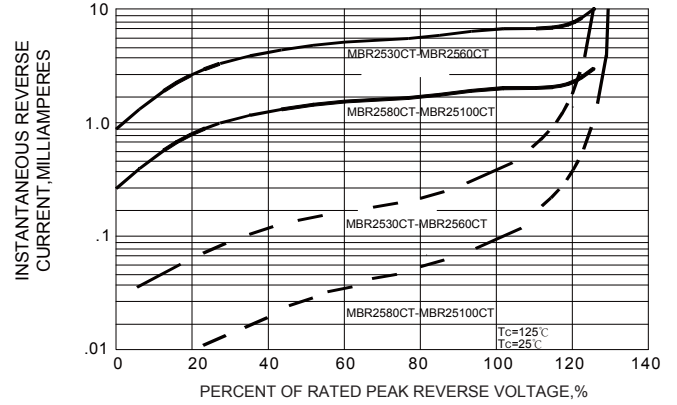
2. Thermal resistance from junction to case.

# RATINGS AND CHARACTERISTIC CURVES

**FIG.1 – PEAK FORWARD SURGE CURRENT**



**FIG.2 – TYPICAL REVERSE CHARACTERISTIC**



**FIG.3 -- TYPICAL FORWARD CHARACTER**

