

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 30--- 100 V

CURRENT: 25.0 A

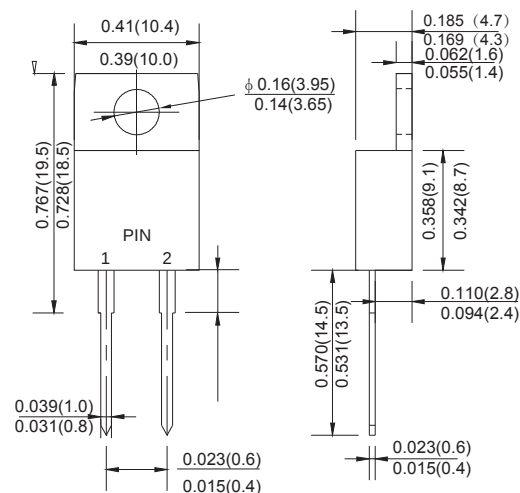
FEATURES

- 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



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 2530CT	MBR 2535CT	MBR 2540CT	MBR 2545CT	MBR 2550CT	MBR 2560CT	MBR 2580CT	MBR 25100CT	UNI 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)	(IF=15A,TC=25°C)		V _F	--				0.75		0.85		V
	(IF=25A,TC=125°C)			0.82				--		--		
Maximum reverse current at rated DC blocking voltage		@T _A =25°C	I _R	0.2				1.0				mA
		@T _A =100°C		40.0				50.0				
Typical Thermal Resistance (Note 2)			R _{θJA}	1.5								°C/W
Storage Temperature			T _{STG}	- 55 ---- + 150								°C
Operation Junction Temperature			T _j	- 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

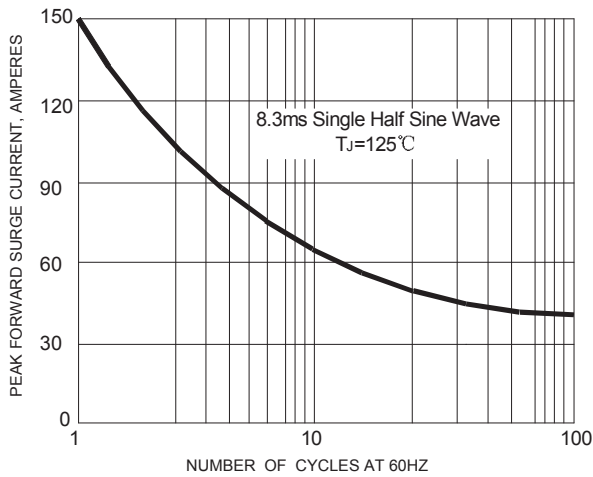


FIG.2 -- TYPICAL REVERSE CHARACTERISTIC

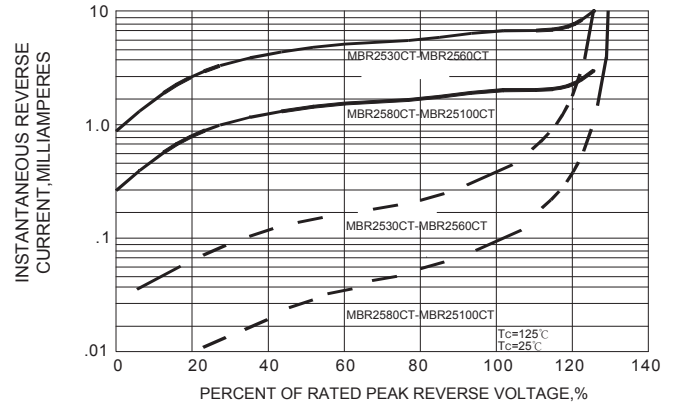


FIG.3 -- TYPICAL FORWARD CHARACTER

