

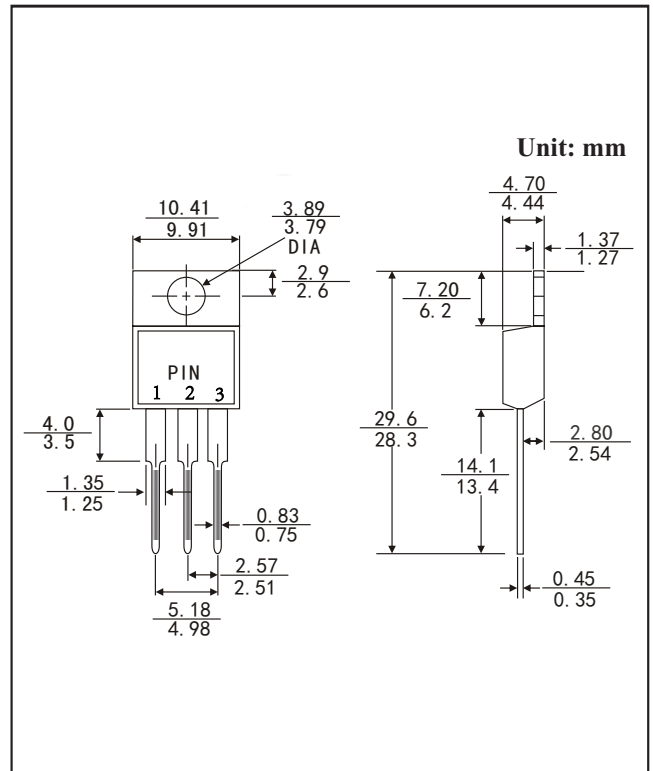
TO-220AB SCHOTTKY BARRIER RECTIFIER

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 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

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



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

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 _A =25°C	0.2			1.0				mA
		@T _A =100°C	40.0			50.0				
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	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

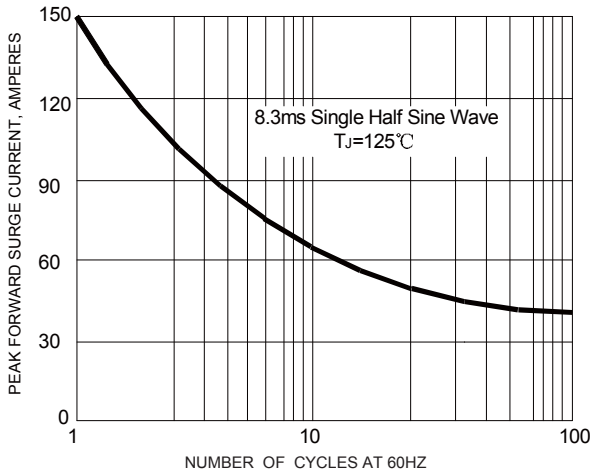


FIG.2 – TYPICAL REVERSE CHARACTERISTIC

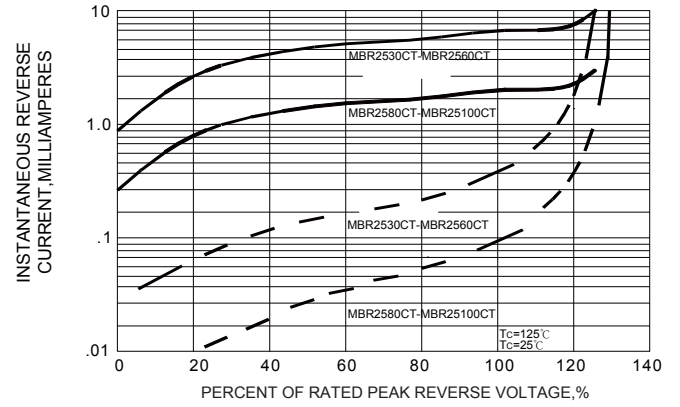


FIG.3 -- TYPICAL FORWARD CHARACTER

