

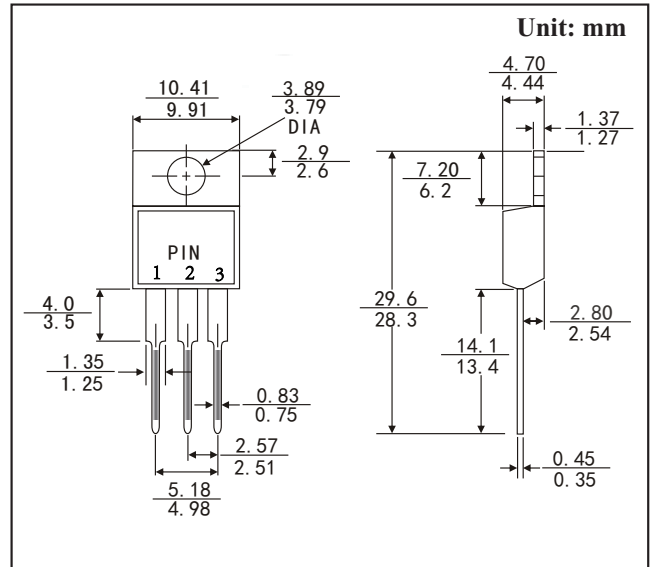
TO-220AB SCHOTTKY BARRIER RECTIFIER

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- Low Power Loss,High Efficiency
- Epoxy:UL 94v-0 rate flame retardant

MECHANICAL DATA

- Case: TO-220AB molded plastic body
- Terminals:Lead solderable per MIL-STD-750,method 2026



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

TYPE NUMBER	SYMBOL	MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR	UNI
		3020CT	3030CT	3040CT	3045CT	3060CT	3080CT	30100CT	30150CT	TS
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	40	45	60	80	100	150	V
Maximum RMS voltage	V_{RMS}	14	21	28	32	42	56	70	105	V
Maximum DC blocking voltage	V_{DC}	20	30	40	45	60	80	100	150	V
Maximum Average Forward rectified Current @TC = 130°C	$I_{F(AV)}$	15.0 30.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	250.0								A
Maximum forward Voltage ($I_F=15A, T_C=25^\circ C$)	V_F	0.60		0.75		0.85		0.95		V
Maximum reverse current at rated DC blocking voltage (Note1)	@ $T_A=25^\circ C$	0.2								mA
	@ $T_A=125^\circ C$	30				50				
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	3.0								°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-FORWARD CURRENT DERATING CURVE

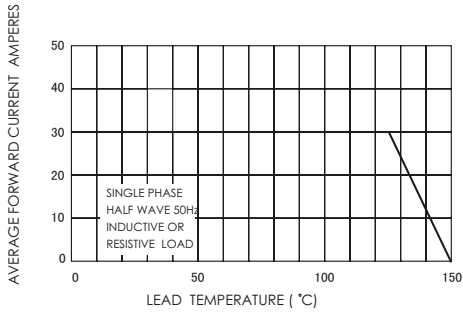


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER DIODE

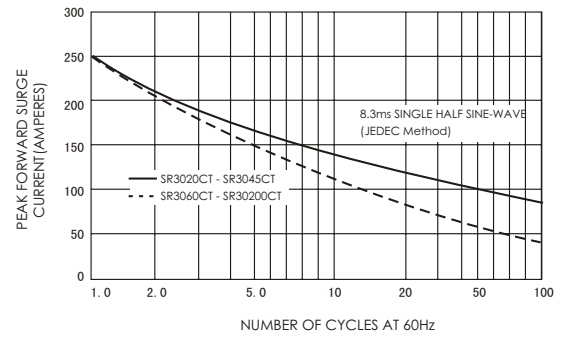


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

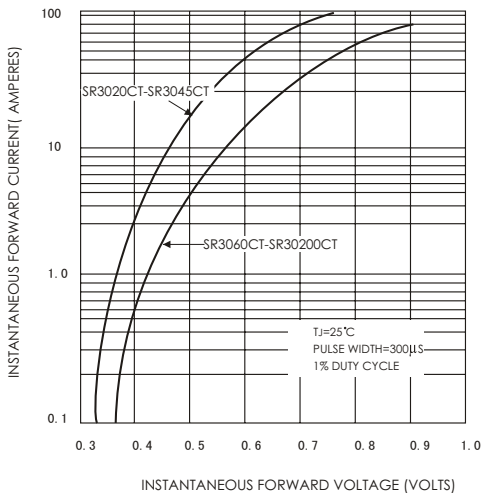


FIG.4-TYPICAL REVERSE CHARACTERISTICS

