

SCHOTTKY BARRIER RECTIFIER

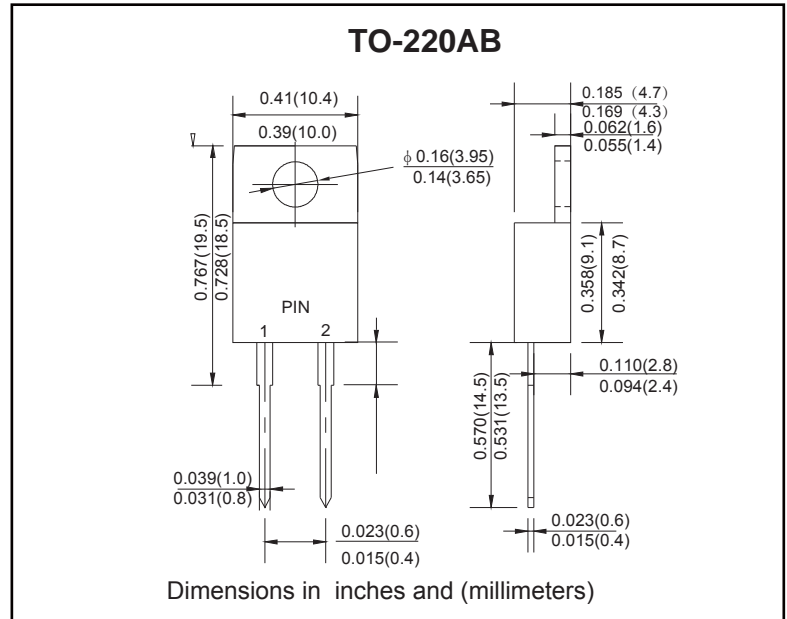
VOLTAGE RANGE: 35--- 200 V CURRENT: 30.0 A

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- Low Power Loss,High Efficiency
- Epoxy:UL 94v-0 rate flame retardant
- Lead:Axial leads,solderable pre MIL-STD-202.method 208 guaranteed

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)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
		3035CT	3045CT	3050CT	3060CT	3090CT	30100CT	30150CT	30200CT	TS
Maximum recurrent peak reverse voltage	V_{RRM}	35	45	50	60	90	100	150	200	V
Maximum RMS voltage	V_{RMS}	21	25	28	32	35	42	56	70	V
Maximum DC blocking voltage	V_{DC}	35	45	50	60	90	100	150	200	V
Maximum Average Forward rectified Current @TC = 130°C	$I_{F(AV)}$	30.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150.0								A
Maximum forward Voltage	($I_F=15A, T_C=25^\circ C$) V_F	0.80		0.60				1.0		V
Maximum reverse current at rated DC blocking voltage	@ $T_A=25^\circ C$	300								mA
	@ $T_A=125^\circ C$	1500								
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	30.0								°C/W
Typical Junction Capacitance (Note 1)	C_j	650								pF
Storage Temperature	T_{STG}	- 55 ---- + 175								°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.