

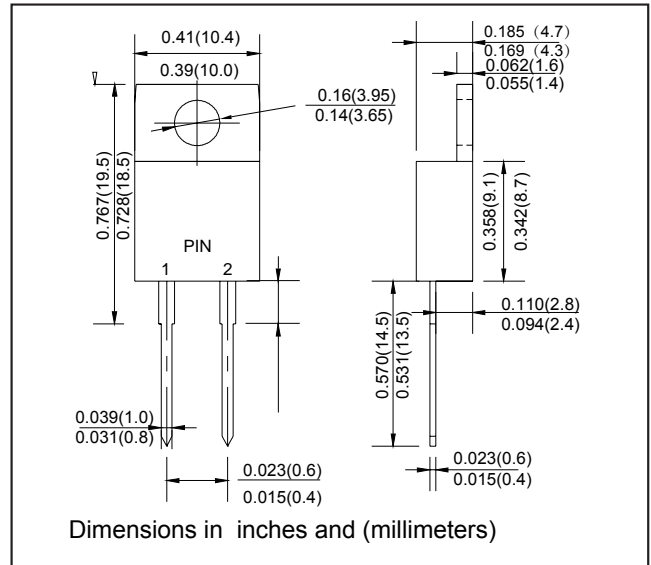
## TO-220AC SCHOTTKY BARRIER RECTIFIER

### FEATURES

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

### MECHANICAL DATA

- Case: TO-220AC 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
		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.