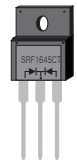
SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 45 Volts

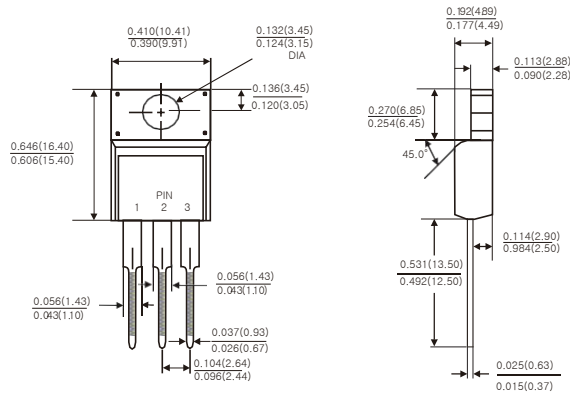
Forward Current - 16.0Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- 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 /10 seconds,,
- 0.25"(6.35mm)from case
- Componentin accordanceto RoHS2015/863/EU



ITO-220AB



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC ITO-220AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

Parameters		Symbols	Value	Units
Maximum repetitive peak reverse voltage		V_{RRM}	45	Volts
Maximum RMS voltage		V_{RMS}	32	Volts
Maximum DC blocking voltage		V_{DC}	45	Volts
Maximum average forward rectified current See Fig.1	Per leg	$I_{(AV)}$	8.0	Amps
	Total device		16.0	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load,Total device (JEDEC method)		I_{FSM}	200.0	Amps
Maximum instantaneous forward voltage at 8.0 A per diode		V_F	0.60	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T_J=25°C	I_R	100	μA
	T_J=100°C		5.0	mA
Typical thermal resistance (Note 2)		$R_{\theta JC}$	4.5	°C/W
Operating junction temperature range		T_J	-55 to+150	°C
Storage temperature range		T_{STG}	-55 to+150	°C

Notes: 1.Pulse test: 300us pulse width,1% duty cycle

2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SRF1645CT

FIG.1-FORWARD CURRENT DERATING CURVE

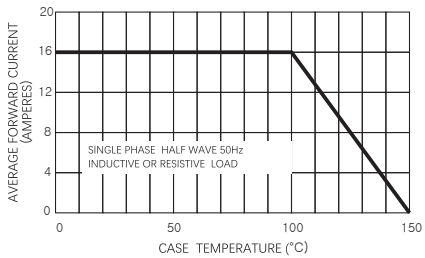


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

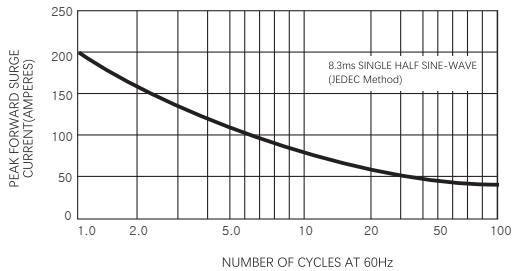


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

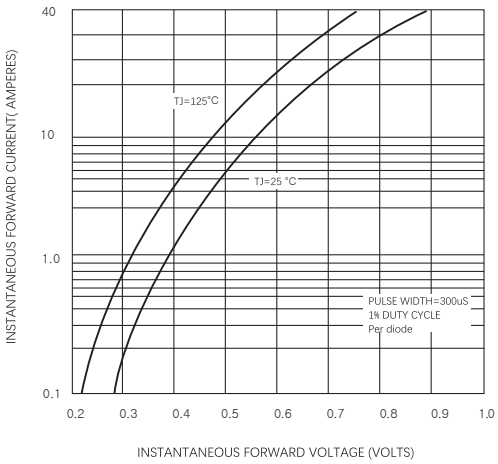


FIG.4-TYPICAL REVERSE CHARACTERISTICS

