SB1645FCT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 45V **CURRENT: 16.0A**

GULF SEMI

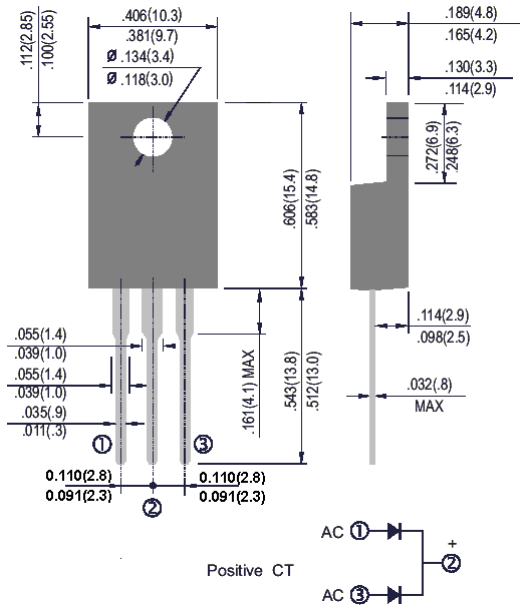
FEATURE

High current capability, Low forward voltage drop
Low power loss, high efficiency
High surge capability
High temperature soldering guaranteed
250℃ /10sec/0.375" lead length at 5 lbs tension

MECHANICAL DATA

Case: JEDEC ITO-220 molded plastic body over passivated chip
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any

ITO-220AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25℃, unless otherwise stated)

	SYMBOL	SB1645FCT	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	45	V
Maximum RMS Voltage	Vrms	31.5	V
Maximum DC blocking Voltage	Vdc	45	V
Maximum Average Forward Rectified Current at Tc=125℃	If(av)	16	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load per leg	Ifsm	150	A
Maximum Forward Voltage per leg and 25°C at 8A	Vf	0.57	V
Maximum Reverse Current per leg Tj =25℃ at working peak reverse voltage Tj =125℃	Ir	0.2 40.0	mA
Typical Thermal Resistance per leg (Note 1)	Rth(jc)	4.0	℃/W
Operating Junction Temperature Range	Tj	-65 to +150	℃
Storage Temperature Range	Tstg	-65 to +175	℃

Note:
1.Thermal Resistance from Junction to Case

Fig. 1 - Forward Current Derating Curve

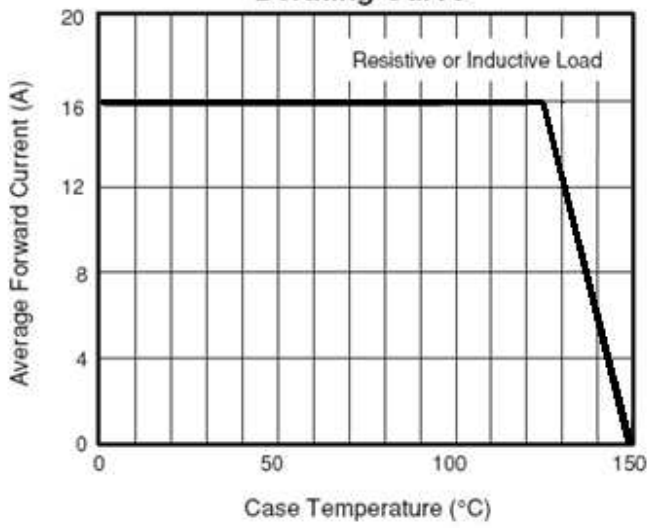


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

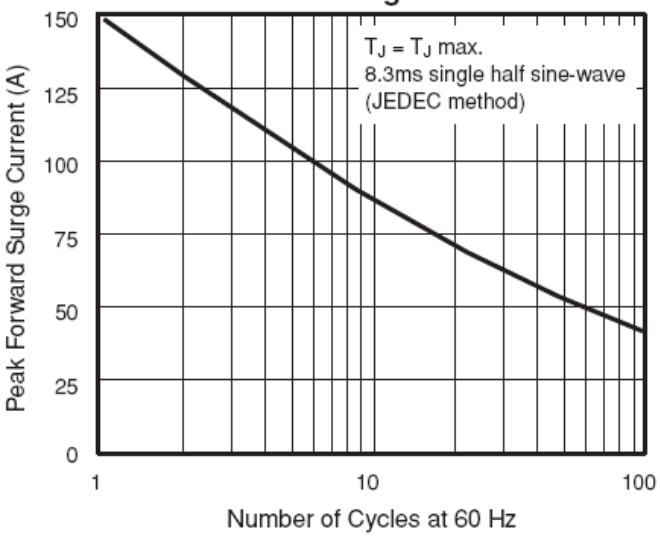


Fig. 3 - Typical Instantaneous Forward Characteristics

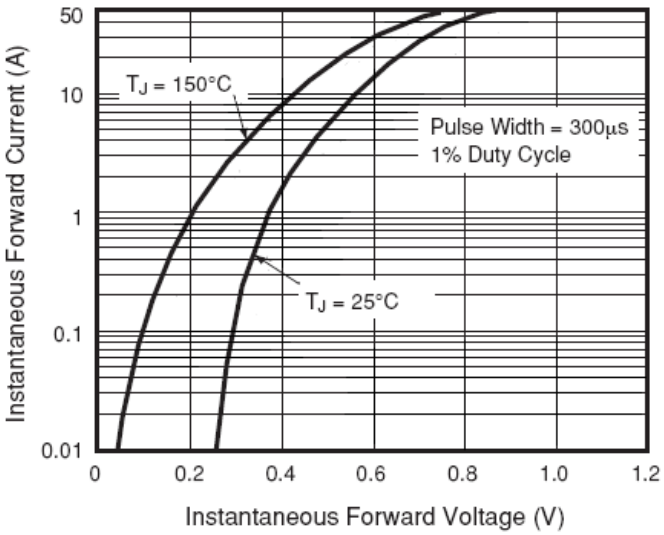


Fig. 4 - Typical Reverse Characteristics

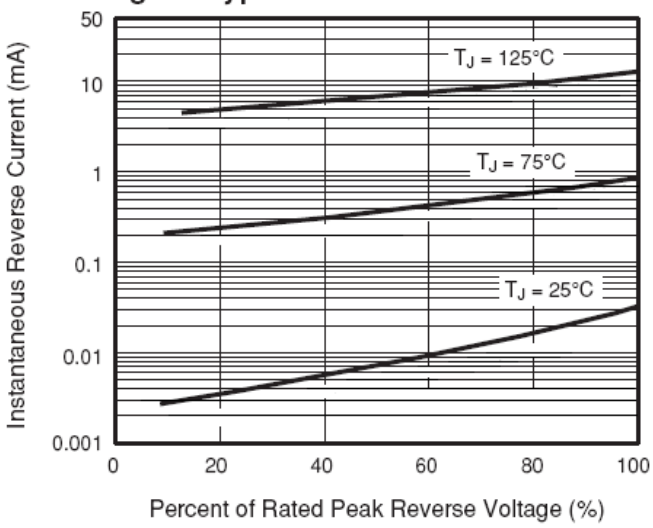


Fig. 5 - Typical Junction Capacitance

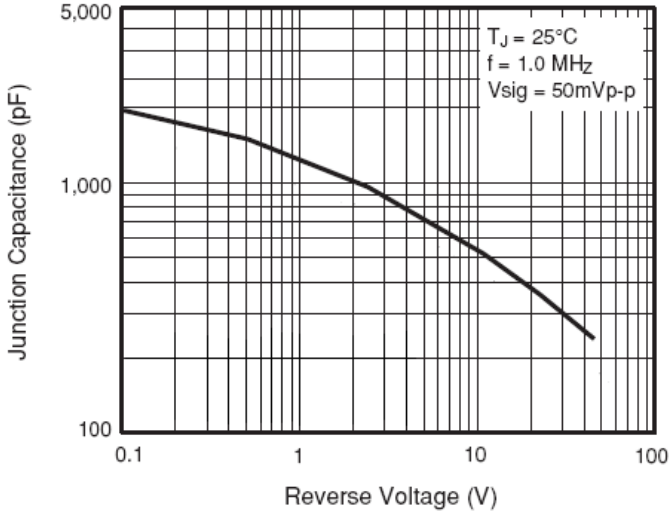


Fig. 6 - Typical Transient Thermal Impedance

