SFF16005CT THRU SFF1606CT

SUPER FAST GLASS PASSIVATED RECTIFIERS

FEATURES:

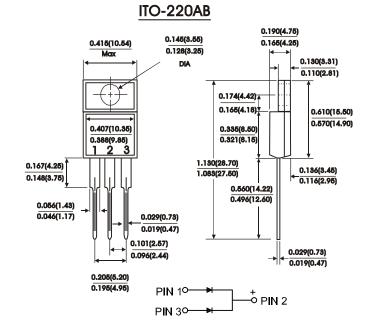
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Ideally suited for freewheeling diode power factor correction applications
- Excellent high temperature switching
- Optimized to reduce switching losses
- High temperature soldering guaranteed: 250°C/10 second,0.25"(6.35mm) from case

MECHANICAL DATA

Case: JEDEC ITO-220AB molded plastic Terminals: Leads solderable per MIL-STD-750

Method 2026 Position : As marked Mouncting Position : Any

Mouncting Torquce: 5 in - lbs.max Weight: 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase half wave, 60 Hz resistive or inductive load.

For capacitive load. derate current by 20%.

Characteristic	Symbol	SFF 16005CT	SFF 1601CT	SFF 1602CT	SFF 1603CT	SFF 1604CT	SFF 1606CT	Units
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	300	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	Volts
Maximum average forward rectified current at $Tc=100^{\circ}C$	I _(AV)	16.0					Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I _{FSM}	125					Amps	
Maximum instantaneous forward voltage (Per leg) $IF=8.0A$	V _F		1.0		1.30 1.70		1.70	Volts
Maximum DC reverse current (Per leg) $T_{C}=25~^{\circ}\text{C}$ at rated DC blocking voltage $T_{C}=125~^{\circ}\text{C}$	IR	10.0 500.0					μΑ	
Typical reverse recovery time(NOTE 1)(Per leg)	T _{RR}	35					nS	
Typical junction capacition (NOTE 2)(Per leg)	СЈ	50					P_F	
Operating temperature range	T _J	-55to+150						$^{\circ}\!\mathbb{C}$
Storage temperature range	T _{Stg}	-55to+150						°C

NOTES:

(1) Reverse Recovery Test CONDITION : $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$

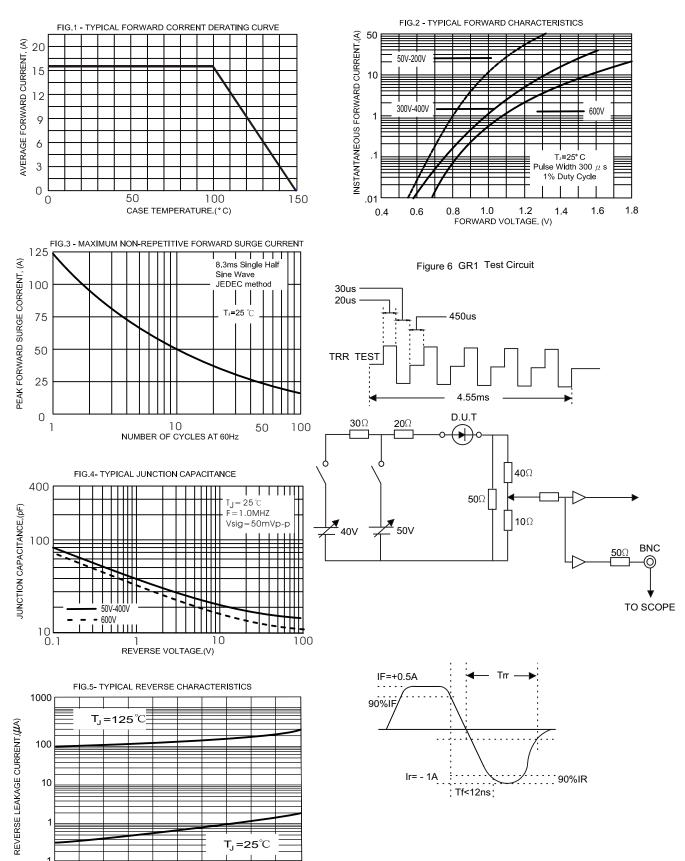
(2)Measured at 1 MHZ and reverse Voltage of 4.0V

 $(3) \mbox{Marking} : \frac{\mbox{SFF16005CT}}{\mbox{Symbol}} = \frac{\mbox{SFF16005}}{\mbox{Marking}} \mbox{ (Without Marking "CT")}$



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RATINGS AND CHARACTERISTIC CURVES



100

PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

0



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