SF20005CT THRU SF2006CT

SUPER FAST GLASS PASSIVATED RECTIFIERS

FEATURES:

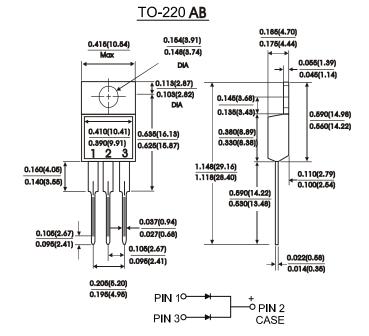
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Ideally suited for freewheeling diode power factor correction applications
- Excellent high temperature switching
- Optimized to reduce switching losses
- High temperature soldering guaranteed: 250°C /10 second, 0.25" (6.35mm)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

MECHANICAL DATA

Case: JEDEC TO-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	SF 20005CT	SF 2001CT	SF 2002CT	SF 2003CT	SF 2004CT	SF 2006CT	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)	20.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I _{FSM}	150						Amps
Maximum instantaneous forward voltage (Per leg)	V _F	1.00		1.3	30	1.70	Volts	
$ \begin{array}{ll} \mbox{Maximum DC reverse current} & \mbox{Tc} = 25 \ ^{\circ}\!\!\!\! \text{C} \\ \mbox{at rated DC blocking voltage (Per leg)} & \mbox{Tc} = 125 \ ^{\circ}\!\!\!\!\! \text{C} \\ \end{array} $	I _R	10.0 500.0						μΑ
Typical reverse recovery time (NOTE 1)(Per leg)	T _{RR}	35						nS
Typical junction capacition (NOTE 2)(Per leg)	C_{J}	50						P _F
Operating temperature range	T _J	-55to+150						°C
Storage temperature range	T _{Stg}	-55to+150						°C

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

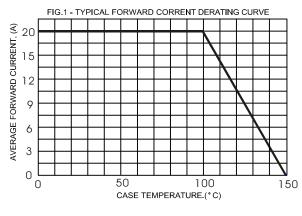
(2) Measured at 1 MHZ and reverse Voltage of 4.0V

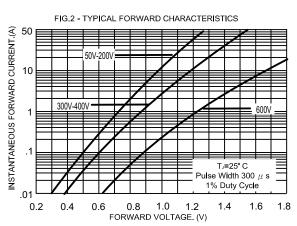
(3)Marking : <u>SF20005CT</u> = <u>SF20005</u> Symbol <u>Marking</u> (Without Marking "CT")

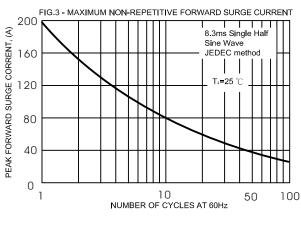


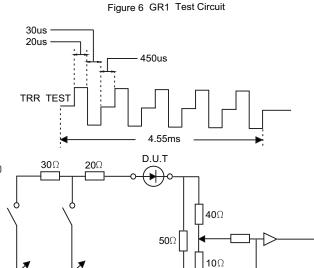
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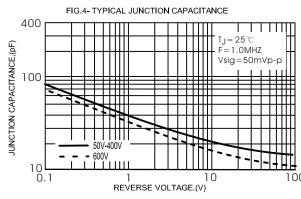
RATINGS AND CHARACTERISTIC CURVES

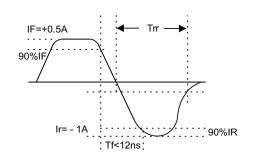


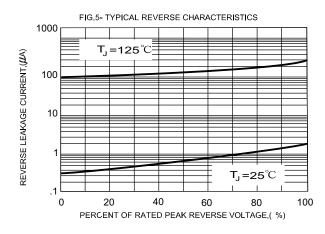












BNC

TO SCOPE



SF20005CT THRU SF2006CT

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