

SFF10005CT THRU SFF1006CT

0.190(4.75)

0.165(4.25)

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

MECHANICAL DATA

Method 2026

Position : As marked

Mouncting Position: Any

• Optimized to reduce switching losses

Case : JEDEC ITO-220AB molded plastic

Mouncting Torquce: 5 in - Ibs.max

Weight: 0.08 ounce, 2.24 grams

Terminals : Leads solderable per MIL-STD-750

• High temperature soldering guaranteed : 250°C /10 second, 0.25"(6.35mm)from case

0.130(3.31) DIA 0.110(2.81) 0.174(4.42) 0.165(4.18) 0.610(15.50) 0.570(14.90) 0.407(10.35 0.335(8.50) 0.321(8.15) 0.388(9.85) 1.130(28.70) 1.083(27.50) 0.167(4.25) 0.136(3.45) 0.148(3.75) 0.116(2.95) 0.560(14.22) 0.496(12.60) 0.056(1.43) 0.046(1.17) 0.029(0.73) 0.019(0.47) 0.101(2.57) 0.029(0.73) 0.096(2.44) 0.019(0.47) 0.205(5.20) 0.195(4.95) PIN 10 ο PIN 2 PIN 30

ITO-220AB

0.415(10.54)

Max

0.145(3.55)

0.128(3.25)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 $^{\circ}$ 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 10005CT	SFF 1001CT	SFF 1002CT	SFF 1003CT	SFF 1004CT	SFF 1006CT	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 $Tc = 100^{\circ}C$	(AV)	10.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I _{FSM}	100					Amps	
Maximum instantaneous forward voltage (Per leg) IF=5.0A	VF	1.0			1	.30	1.70	Volts
Maximum DC reverse current(Per leg) $Tc = 25 \degree C$ at rated DC blocking voltage $Tc = 125\degree C$	I _R	10.0 500.0						μA
Typical reverse recovery time(NOTE 1)(Per leg)	T _{RR}	35						nS
Typical junction capacition (NOTE 2) (Per leg)	CJ	50						Ρ _F
Operating temperature range	TJ	-55to+150						°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

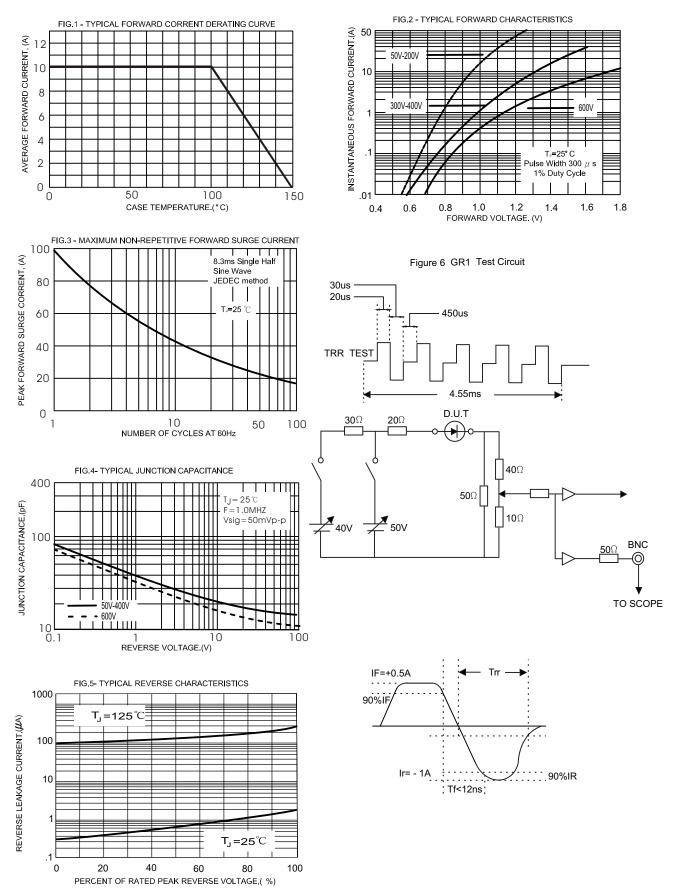
(2)Measured at 1MHZ and reverse Voltage of 4.0V

(3)Marking : <u>SFF10005CT</u> = <u>SFF10005</u> (Whitout Marking "CT") Symbol Marking



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RATINGS AND CHARACTERISTIC CURVES



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