



SFF2002FCTCT/TT THRU SFF2006FCT CT/TT

Superfast Recovery Rectifiers

FEATURES

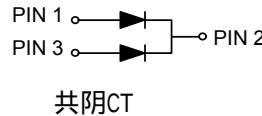
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- High forward surge capability
- High temperature soldering : 260°C/10 seconds at terminals
- Lead free in comply with EU ROHS 2011/65/EU directives



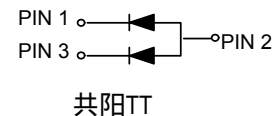
Mechanical Data

- Case : ITO-220AB
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Cathode line denotes the cathode end
- Mounting Position : Any

ITO-220AB		
Dim.	Min.	Max.
A	9.95	10.25
B	2.95	3.25
C	1.25	1.45
D	12.95	13.25
E	0.50	0.65
F	2.80	3.3
G	1.30	1.45
H	Typ 2.54	
I	Typ 5.08	
J	4.50	4.75
K	2.50	2.65
L	6.35	6.55
M	15.4	16.0
N	2.75	3.05
O	0.48	0.52
P	0.76	0.84
All Dimensions in millimeter		



共阴CT



共阳TT

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load. For capacitive load, derate current by 20%

CHARACTERISTICS	Symbols	SFF2002FCT CT/TT	SFF2003FCT CT/TT	SFF2004FCT CT/TT	SFF2006FCT CT/TT	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	300	400	600	V
Maximum RMS Bridge Input Voltage	V _{RMS}	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	200	300	400	600	V
Maximum Average Forward Rectified Current	I _(AV)	20.0				A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	160				A
Maximum Forward Voltage at 10A DC	V _F	1.0	1.30	1.70		V
Maximum DC Reverse Current T _A =25°C at Rated DC Blocking Voltage T _A =125°C	I _R	10 400				μA
Maximum Reverse Recovery Time (Note1)	TRR	35				ns
Typical Thermal Resistance	R _{θJC}	4				°C/W
Operating Temperature Range	T _J	-55 to +150				°C
Storage Temperature Range	T _{STG}	-55 to +150				°C

NOTES: 1. Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

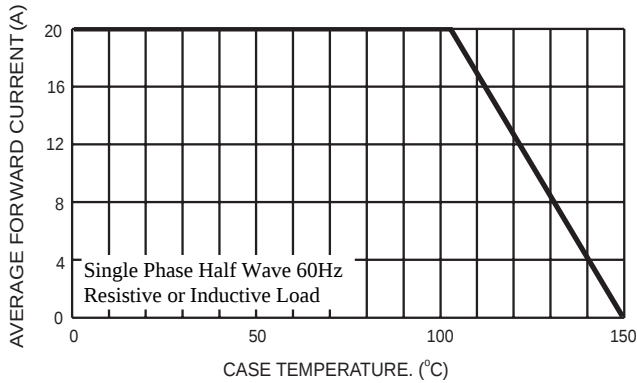


FIG.2- TYPICAL REVERSE CHARACTERISTICS

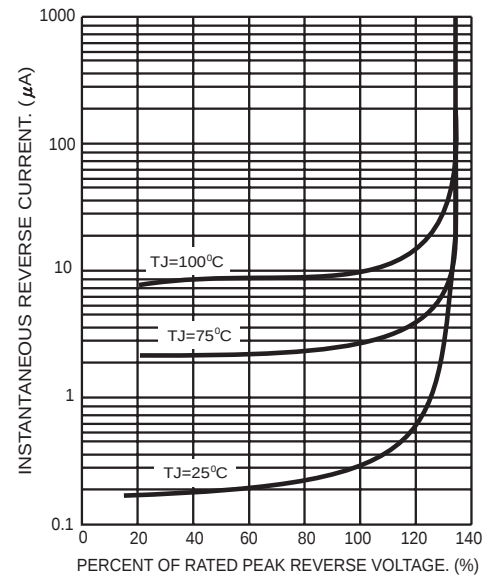


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

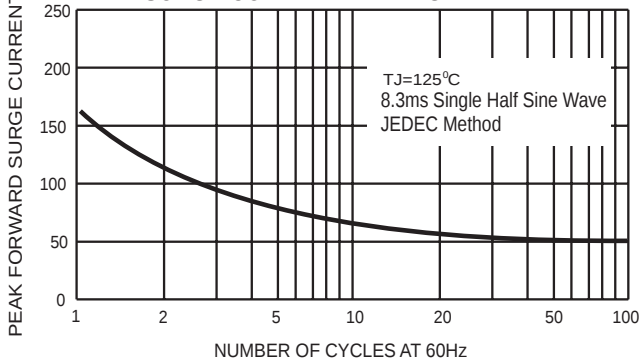


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER LEG

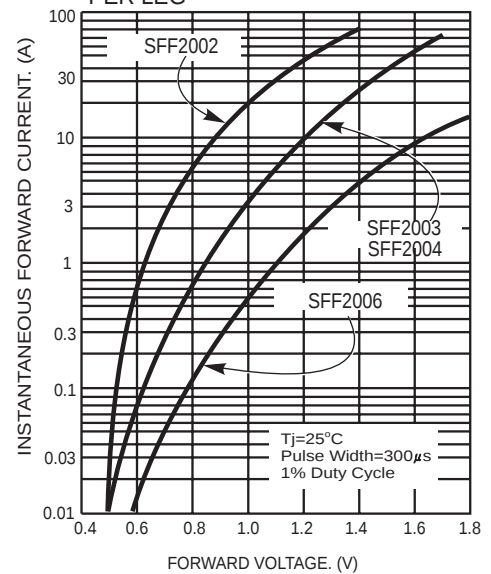


FIG.4- TYPICAL JUNCTION CAPACITANCE PER LEG

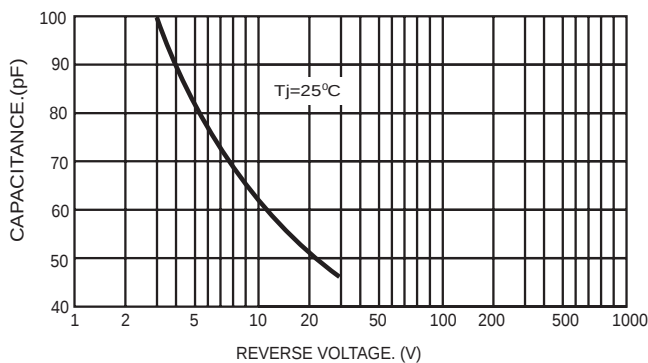


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

