



SFF3004TT/CT

Superfast Recovery Rectifiers

FEATURES

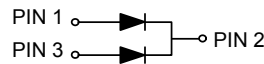
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- High forward surge capability
- High temperature soldering : 260°C/10 seconds at terminals
- Lead free in comply with EU ROHS 2011/65/EU directives



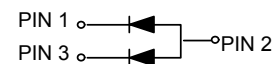
Mechanical Data

- 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

Ratings 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%

Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	400	V
Working Peak Reverse Voltage		V_{RWM}	400	V
Maximum DC Blocking Voltage		V_{DC}	400	V
Maximum Average Forward Rectified Current	Per Leg	I_O	15	A
	Total		30	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave		I_{FSM}	200	A
Operating Temperature Range		T_J	-50 to +150	°C
Storage Temperature Range		T_{STG}	-50 to +150	°C
Typical Thermal Resistance (Note1)		$R_{\theta JC}$	4	°C/W

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.



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Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)		V_F	Typ.	Max.	V
at $I_F=3A$	$T_A=25^{\circ}C$		0.84	-	
	$T_A=125^{\circ}C$		0.68	-	
at $I_F=5A$	$T_A=25^{\circ}C$		0.90	-	
	$T_A=125^{\circ}C$		0.74	-	
at $I_F=15A$	$T_A=25^{\circ}C$		1.06	1.3	
	$T_A=125^{\circ}C$		0.90	-	
Maximum Reverse Current at $V_R=400V$	$T_A=25^{\circ}C$	I_R	0.01	1	μA
	$T_A=125^{\circ}C$		10	-	μA
Maximum Reverse Recovery Time at $I_F=0.5A$, $I_R=1A$, $I_{RR}=0.25A$		T_{rr}	-	35	ns

Note2:Pulse test: 300 μs pulse width, 1 % duty cycle

RATING AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

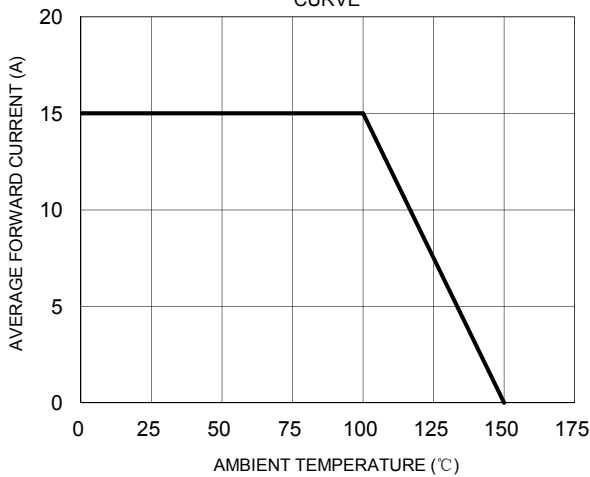


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

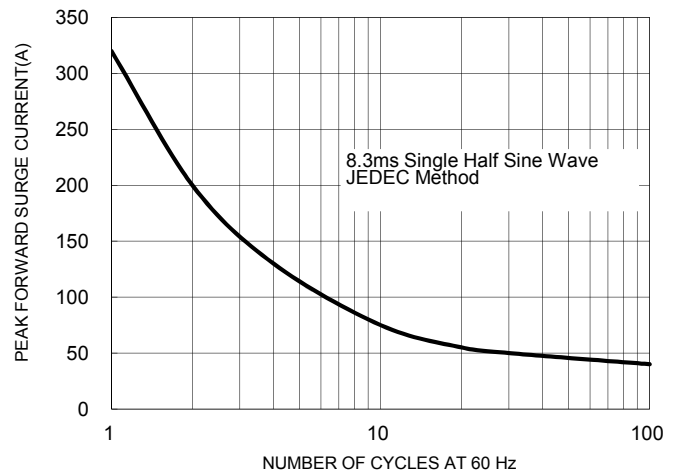


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

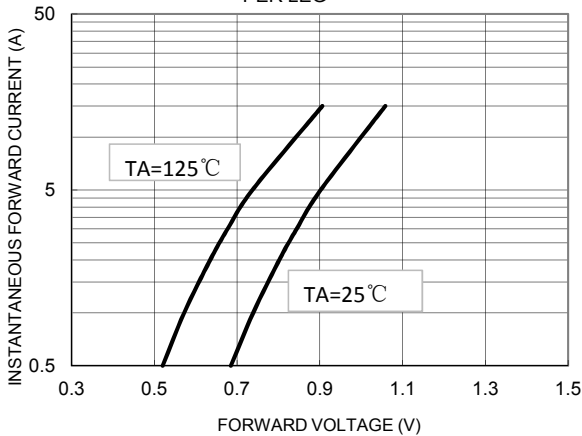


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

