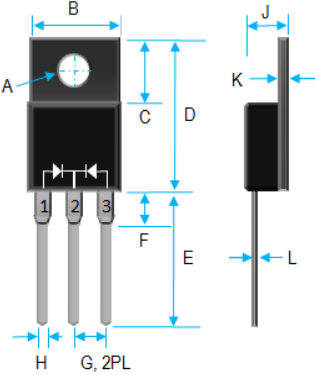


10A DUAL SUPER FAST RECOVERY RECTIFIER

	Value Inch[mm]	
	Dim.	Min. Max.
A	0.118 [3.0] 0.134 [3.4]	
B	0.381 [9.7] 0.406 [10.3]	
C	0.248 [6.3] 0.272 [6.9]	
D	0.583 [14.8] 0.606 [15.4]	
E	0.512 [13.0] 0.548 [13.9]	
F	---	0.161 [4.1]
G	0.095 [2.41] 0.105 [2.67]	
H	0.019 [0.50] 0.028 [0.7]	
J	0.165 [4.2] 0.189 [4.8]	
K	0.099 [2.5] 0.130 [3.3]	
L	---	0.032 [0.8]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. HIGH VOLTAGE
3. GLASS PASSIVATED CHIP JUNCTION
4. LOW FORWARD VOLTAGE DROP
5. HIGH SURGE CURRENT CAPABILITY
6. SUPER FAST SWITCHING
7. LOW THERMAL RESISTANCE
8. CASE: TRANSFER MOLDED, ITO-220AB
9. POLARITY: AS MARKED
10. WEIGHT: 2.05 GRAMS
11. TERMINALS: PER MIL-STD-202 METHOD 208
12. RoHS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO +150°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.

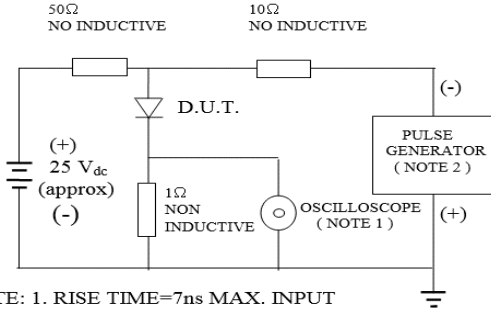
RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT	I_O	10	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	125	A
TYPICAL JUNCTION CAPACITANCE(NOTE 1)	C_J	65	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta ja}$	2.2	°C/W
MAXIMUM REVERSE CURRENT @ 25°C	I_R	10	uA
MAXIMUM REVERSE CURRENT @ 100°C	I_R	100	uA
MAXIMUM REVERSE RECOVERY TIME	T_{RR}	35	nS

1. C_J MEASURED @ 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
2. THERMAL RESISTANCE JUNCTION TO CASE PER LEG MOUNTED ON HEAT SINK
3. REVERSE RECOVERY TEST CONDITIONS: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
4. MAXIMUM FORWARD VOLTAGE @ 4A PER LEG

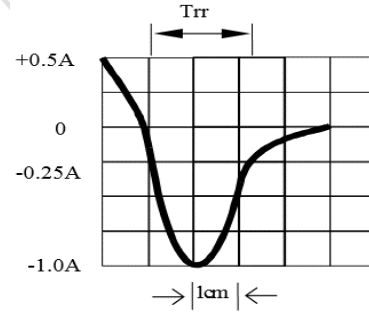
PART NUMBER	MAX RECURRENT PK REV VOLTAGE V_{RRM} (V)	MAX RMS VOLTAGE V_{RMS} (V)	MAX DC BLOCKING VOLTAGE V_{DC} (V)	MAX FWD VOLTAGE V_F (V)
SFF100-03CT	300	210	300	1.3
SFF100-04CT	400	280	400	1.3
SFF100-05CT	500	350	500	1.7
SFF100-06CT	600	420	600	1.7

RATING AND CHARACTERISTIC CURVES

FIG. 1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTE: 1. RISE TIME=7ns MAX. INPUT IMPEDANCE=1 MOhms 22PF
 2. RISE TIME =10ns MAX. SOURCE IMPEDANCE=50 OHMS



SET TIME BASE FOR 10/20 ns/cm

FIG. 2 -TYPICAL FORWARD CURRENT DERATING CURVE

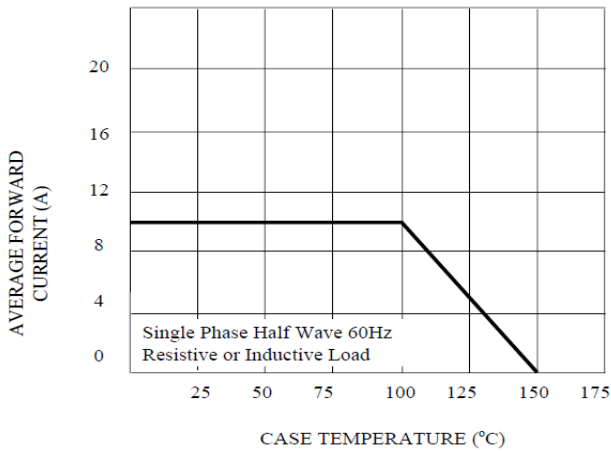


FIG. 3 -TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

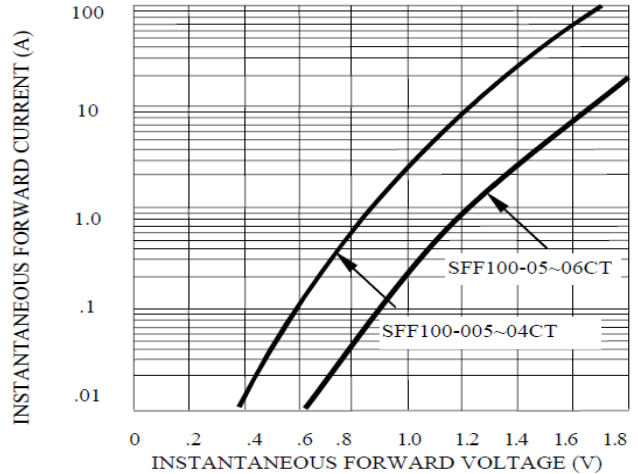


FIG. 4 -TYPICAL REVERSE CHARACTERISTICS

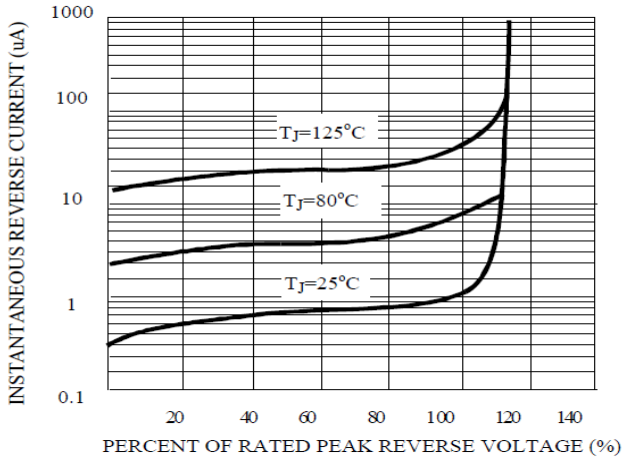


FIG. 5 -TYPICAL JUNCTION CAPACITANCE

