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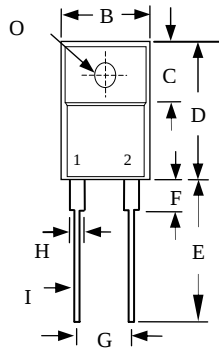
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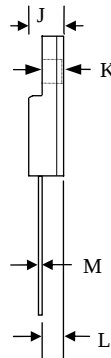
10A SCHOTTKY BARRIER RECTIFIERS

SRF10-03 THRU SRF10-10

CASE : ITO-220AC(SRF10-XX), FULLY INSULATED PACKAGE



PIN 1 PIN 2
CASE



	MILLIMETERS	
	MIN	MAX
B	9.72	10.27
C	6.30	6.90
D	14.50	15.50
E	13.00	13.80
F	-	4.1
G	4.95	5.20
H	-	1.52
I	-	0.9
J	-	4.8
K	-	3.1
L	2.5	2.9
M	-	0.8
O	Ø 3.4	

FEATURES

- EXTREMELY LOW V_F
- LOW STORED CHARGE, MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS / HIGH EFFICIENCY
- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOUND

MECHANICAL DATA

- CASE: TRANSFER MOLDED
- LEADS: SOLDERABLE PER MIL-STD-202,METHOD 208
- POLARITY: AS MARKED
- WEIGHT: 1.81 GRAMS

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%

RATINGS	SYMBOL	SRF10-03	SRF10-035	SRF10-04	SRF10-045	SRF10-05	SRF10-06	SRF10-07	SRF10-08	SRF10-09	SRF10-10	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	30	35	40	45	50	60	70	80	90	100	V
MAXIMUM RMS VOLTAGE	V_{RMS}	21	24	28	31	35	42	49	56	63	70	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	30	35	40	45	50	60	70	80	90	100	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT SEE FIG.1 PER LEG	I_O	10.0 5.0										A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD PER LEG	I_{FSM}	125										A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150										°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 125										°C

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	SRF10-03	SRF10-035	SRF10-04	SRF10-045	SRF10-05	SRF10-06	SRF10-07	SRF10-08	SRF10-09	SRF10-10	UNITS
MAXIMUM FORWARD VOLTAGE AT I _O PER LEG	V _F	0.55				0.70		0.85				V
MAXIMUM REVERSE CURRENT AT 25°C PER LEG (NOTE 1)	I _R						5.0					mA
MAXIMUM REVERSE CURRENT AT 100°C PER LEG (NOTE 1)	I _R						50.0					mA

THERMAL CHARACTERISTICS ($T_c = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER	SYMBOL	SRF10	UNITS
TYPICAL THERMAL RESISTANCE JUNCTION TO CASE PER LEG	$R_{\theta jc}$	4.0	°C/W

NOTES: 1. PULSE TEST: 300μS PULSE WIDTH, 1% DUTY CYCLE

RATINGS AND CHARACTERISTIC CURVES OF SRF10-03 AND SRF10-10

FIG. 1 - FORWARD CURRENT DERATING CURVE

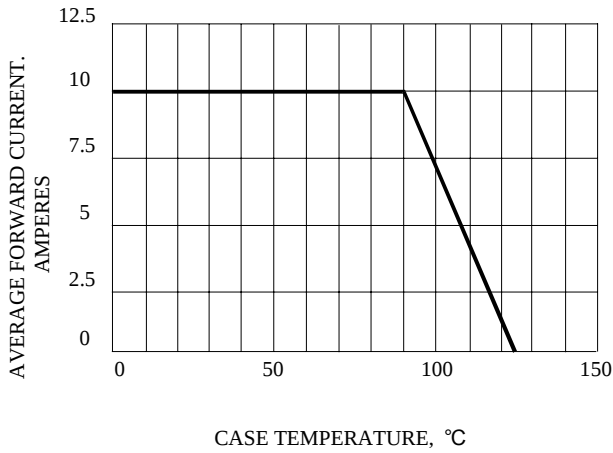


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

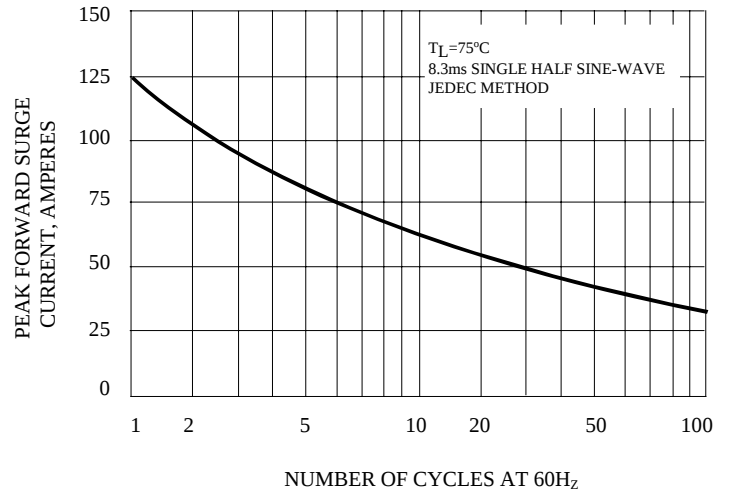


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

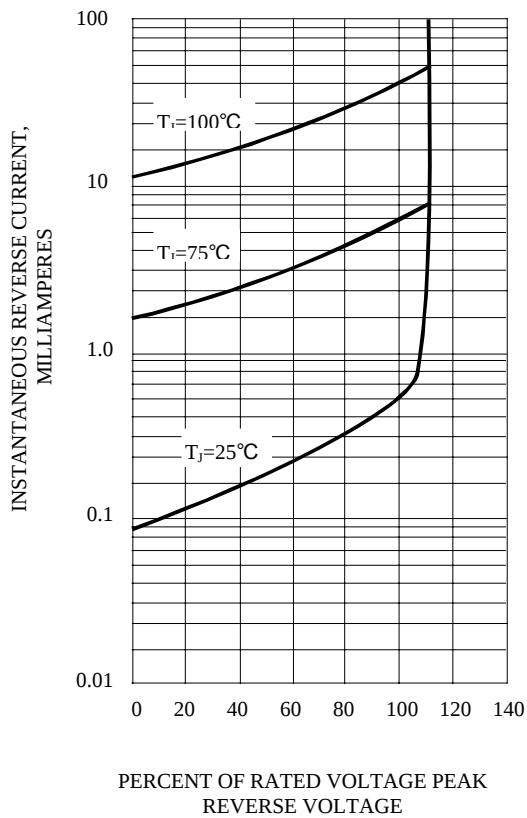


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

