SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada,CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

PRELIMINARY

SFA1202ME4 thru SFA1204ME4

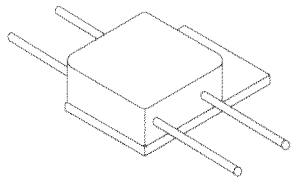
Designer's Data Sheet

10 AMP 200-400 VOLTS 20 nsec HYPER FAST SINGLE PHASE BRIDGE RECTIFIER

FEATURES:

- Hyper Fast Recovery: 20 nsec Maximum
- Isolated Low Profile Package
- Hermetically Sealed SHF1204 Discretes
- Higher Voltages Available
- 150°C Operating Temperature
- Low Reverse Leakage Current
- For High Efficiency Applications
- TX and TXV Screening Available

EPOXY TO-254



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage Per Leg **SFA1202ME4** **SFA1203ME4** **SFA1204ME4**	V_{RRM} V_{RWM} V_R	200 300 400	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=55°C)	I_O	10	Amps
Surge Current (Single 8.3 ms Pulse, Half Sine Superimposed on Io, TA=55°C)	I_{FSM}	125	Amps
Operating and storage temperature	Top & Tstg	-55 to +150	°C
Maximum Thermal Resistance Junction to Case, all legs tied together	$R_{\theta JC}$	2.5	°C/W

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RH0079 A	RMD

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ELECTRICAL CHARACTERISTICS (Per Leg)

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (I_F = 1.2 Adc, T_A=25°C, 300µs Pulse)	V_F	1.4	Vdc
Instantaneous Forward Voltage Drop (I_F = 2 Adc, T_A=25°C, 300µs Pulse)	V_F	1.6	Vdc
Reverse Leakage Current (Rated VR, T_A=25°C, 300µs pulse minimum)	I_R	10	µA
Reverse Leakage Current (Rated V_R, T_A=100°C, 300µs pulse minimum)	I_R	1	mA
Junction Capacitance (V_R = 10 Vdc, T_A=25°C, f= 1 MHz)	C_J	20	pf
Reverse Recovery Time (I_F =500mA, I_R = 1A, I_{RR}=250mA, T_A=25°C) (I_F =500mA, I_R = 1A, I_{RR}=250mA, T_A=100°C)	trr	20 50	nsec

CASE OUTLINE: TO-254 ME-4