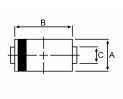


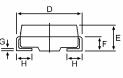
SRM34

Switchmode Schottky Barrier Power Rectifiers SCHOTTKY BARRIER Using the Schottky Barrier principle with high temperature operation metal. RECTIFIERS The properitary barrier technology allows for reliable operation up to $150\,^\circ\!\mathrm{C}$ junction temperature. Typical application are in switching Mode Power **3 AMPERES** Supplies such as adaptators, Photovoltaic Solar cell protection free-40VOLTS wheeling and polarity protection diodes. Features * Ultra Low Forward Voltage. *Low Switching noise. * High Current Capacity *Low Power Loss & High efficiency. *150°C Operating Junction Temperature * Low Stored Charge Majority Carrier Conduction. * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O DO-214AA(SMB) * In compliance with EU RoHs 2002/95/EC directives MAXIMUM RATINGS Symbol SRM34 Characteristic Unit Peak Repetitive Reverse Voltage VRRM V Working Peak Reverse Voltage 40 V_{RWM} DC Blocking Voltage V_R 28 V **RMS Reverse Voltage** V_{R(RMS)} Average Rectifier Forward Current I_{F(AV)} 3 А Non-Repetitive Peak Surge Current (Surge applied at I_{FSM} 30 А rate load conditions halfware, single phase, 60Hz) Operating and Storage Junction Temperature Range T_J, T_{stg} -65 to +150 °C THERMAL RESISTANCES Typical Thermal Resistance junction to body °C/w R_{θ j-c} 5.5

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	SRM34		Unit	
Maximum Instantaneous Forward Voltage		Min	Тур.	Max.	
(I _F =0.1 Amp T _C = 25℃)	VF		0.30	0.31	V
(I _F =3.0 Amp T _C = 25℃)			0.51	0.53	
Maximum Instantaneous Reverse Current					
(Rated DC Voltage, $T_C = 25^{\circ}C$)	I _R		0.08	0.1	mA
(Rated DC Voltage, T_c = 125 $^\circ\!\mathbb{C}$)			10	12	





DIM	MILLIMETERS		
DIN	MIN	MAX	
Α	3.30	3.90	
В	4.20	4.60	
С	1.80	2.20	
D	5.10	5.60	
Е	1.90	2.50	
F		1.30	
G		0.22	
Н	0.95	1.35	

CASE Transfer molded plastic

POI ARITY---Cathode indicated polarity band

SRM34

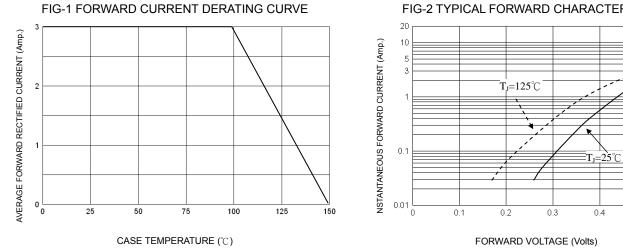
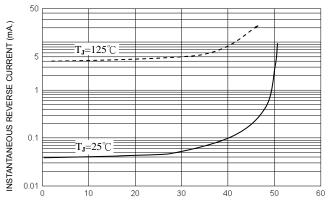


FIG-3 TYPICAL REVERSE CHARACTERISTICS



REVERSE VOLTAGE (Volts)

FIG-5 PEAK FORWARD SURGE CURRENT 40 PEAK FORWARD SURGE CURRENT (Amp.) 30 20 10 0 L 1 10 100

NUMBER OF CYCLES AT 60 Hz

FIG-4 TYPICAL JUNCTION CAPACITANCE

0.5

0.6

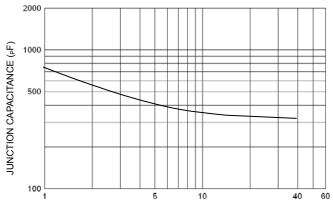




FIG-2 TYPICAL FORWARD CHARACTERISITICS



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