

SRF2060C

Switchmode Full Plastic Dual Schottky Barrier Power Rectifiers

Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

Features

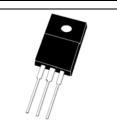
- *Low Forward Voltage.
- *Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- *Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory
- * ESD: 8KV(Min.) Human-Body Model
- * Flammability Classification 94V-O
- * Pb free
- * In compliance with EU RoHs directives
- * "G" Green product

MAXIMUM RATINGS

Characteristic	Symbol	SRF2060C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
RMS Reverse Voltage	V _{R(RMS)}	42	V
Average Rectifier Forward Current (Per diode) Total Device (Rated $V_R),T_C\text{=}125^\circ\!\!\mathbb{C}$	I _{F(AV)}	10 20	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	20	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	200	A
Junction Temperature	TJ	125	°C
Storage Temperature Range	T _{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	SRF2060C	Unit
Maximum Instantaneous Forward Voltage (I _F =10 Amp T _C = 25°C) (I _F =10 Amp T _C = 100°C)	V _F	0.70 0.60	V
Typical Thermal Resistance junction to case	$R_{\theta j-c}$	3.8	°C/w
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25℃) (Rated DC Voltage, T _C = 100℃)	I _R	0.5 20	mA



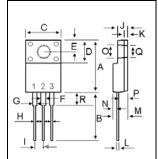
SCHOTTKY BARRIER

RECTIFIERS

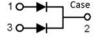
20 AMPERES

60 VOLTS





DIM	MILLIMETERS	
DIN	MIN	MAX
Α	14.80	16.10
В	12.65	13.80
С	9.85	10.36
D	4.60	6.80
Е	2.50	3.50
F	1.00	1.45
G	1.00	1.45
н	0.30	0.90
I	2.40	2.70
J	2.34	3.30
К	0.55	1.30
L	0.36	0.80
Μ	4.20	4.90
N	1.10	1.80
0	2.90	3.50
Р	2.50	3.15
Q	2.90	3.50
R	3.10	4.85
10	N 1 (200



SRF2060C

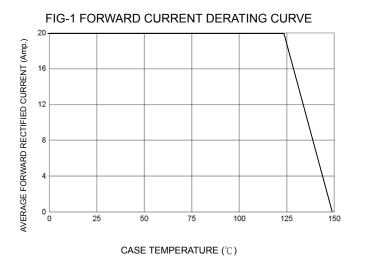


FIG-2 TYPICAL FORWARD CHARACTERISTICS 50 10 $T_{J}=125^{\circ}c$ $T_{J}=25^{\circ}c$ 10 $T_{J}=25^{\circ}c$ 10 0.1 0.0 0.2 0.4 0.6 0.8 1.0EXAMPLE 100

FORWARD VOLTAGE (Volts)

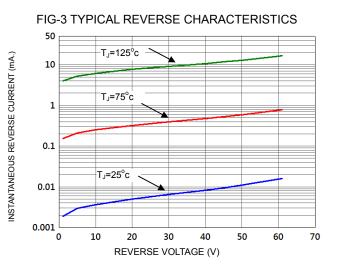
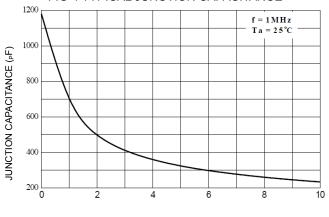
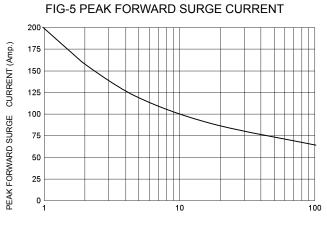


FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)



NUMBER OF CYCLES AT 60 Hz

RA-D-0893 Ver.A



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