PFS

PLASTIC SILICON RECTIFIER
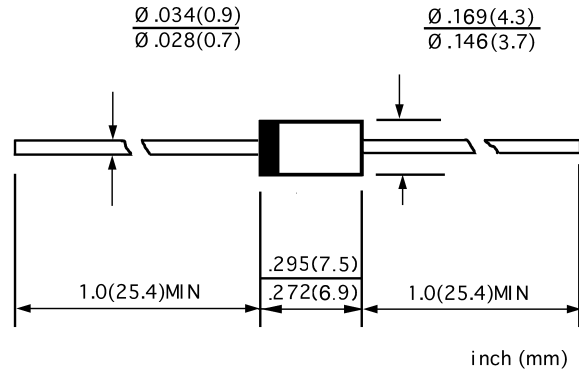
RM11A(Z)---RM11C(Z)

VOLTAGE RANGE: 600 --- 1000 V
CURRENT: 1.2 A

FEATURES

◇ Low cost
◇ Diffused junction
◇ Low leakage
◇ Low forward voltage drop
◇ High current capability
◇ Easily cleaned witn Freon,Alcohol,Isopropanol
   and similar solvents
◇ The plastic material carries U/L recognition 94V-0

DO - 15L

$\varnothing .034(0.9)$ / $\varnothing .028(0.7)$

$\varnothing .169(4.3)$ / $\varnothing .146(3.7)$

.295(7.5) / .272(6.9)

1.0(25.4)MIN   1.0(25.4)MIN

inch (mm)

MECHANICAL DATA

◇ Case:JEDEC DO-15L,molded plastic
◇ Terminals: Axial lead ,solderable per
   MIL- STD-202,Method 208
◇ Polarity: Color band denotes cathode
◇ Weight: 0.017 ounces,0.48 grams
◇ Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		RM11A	RM11B	RM11C	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	600	800	1000	V
Maximum RMS voltage	V_{RMS}	420	560	700	V
Maximum DC blocking voltage	V_{DC}	600	800	1000	V
Maximum average forward rectified current 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	1.2			A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T_J=125℃	I_{FSM}	100.0			A
Maximum instantaneous forward voltage @ 1.5 A	V_F	0.92			V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	5.0 50.0			μ A
Typical junction capacitance (Note1)	C_J	25			pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	30			℃/W
Operating junction temperature range	T_J	-55-----+150			℃
Storage temperature range	T_{STG}	-55-----+150			℃

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

    2. Thermal resistance from junction to ambient.

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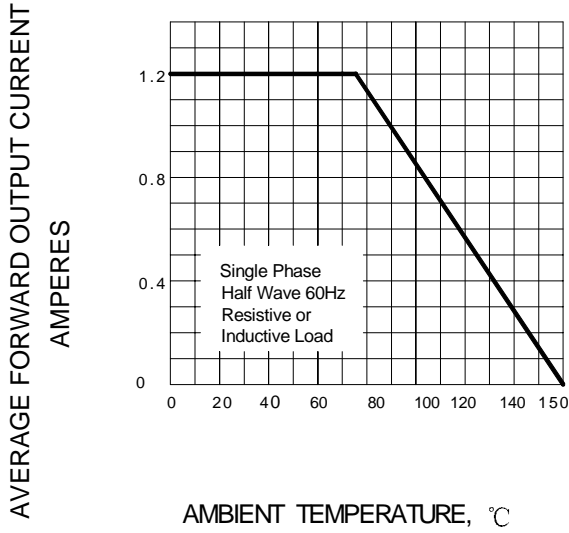**CURRENT: 1.2 A**
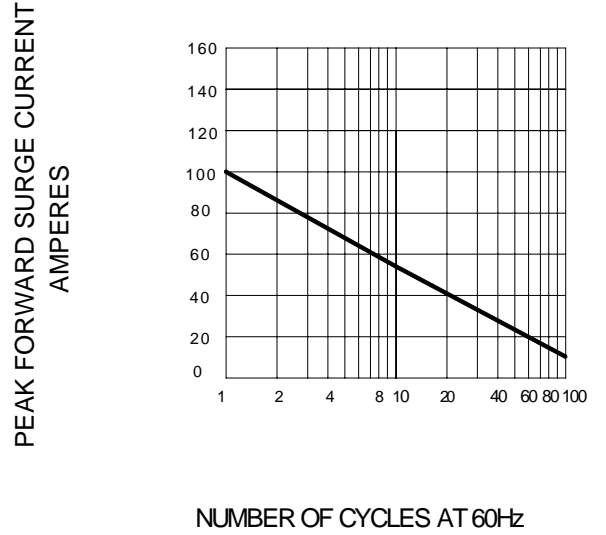
FIG.1 – FORWARD DERATING CURVE

AVERAGE FORWARD OUTPUT CURRENT AMPERES

Single Phase
Half Wave 60Hz
Resistive or
Inductive Load

AMBIENT TEMPERATURE, ℃

FIG.2 – PEAK FORWARD SURGE CURRENT

PEAK FORWARD SURGE CURRENT AMPERES

NUMBER OF CYCLES AT 60Hz

FIG.3 – TYPICAL FORWARD CHARACTERISTIC
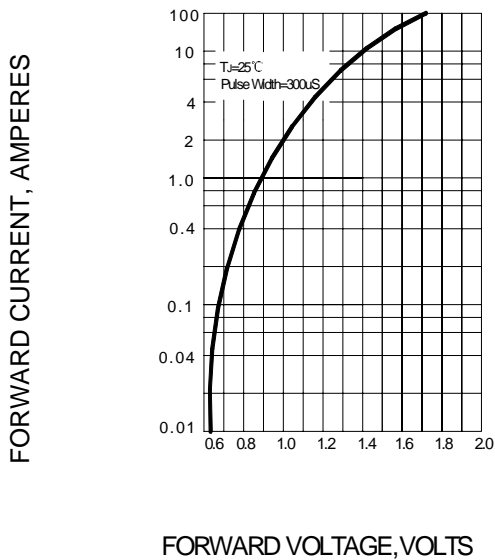

FORWARD CURRENT, AMPERES

$T_J=25℃$
Pulse Width=300uS

FORWARD VOLTAGE,VOLTS

FIG.4 – TYPICAL REVERSE CHARACTERISTICS

REVERSE CURRENT, MICROAMPERES

$T_J=100℃$

$T_J=25℃$

PERCENT OF RATED REVERSE VOLTAGE,%

Web Site: WWW.PS-PFS.COM