Surface Mount Rectifier





Features:

- Low Cost
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- · Easily Cleaned With Alcohol, Isopropanol And Similar Solvents

Mechanical Data:

· Case: JEDEC DO-214AA, molded plastic

· Terminals : Solderable per MIL-STD-202, Method 208

· Polarity: Colour band denotes cathode

Weight: 0.003oz, 0.093gMounting position: Any

Maximum Ratings and Electrical Characteristics:

Ratings at 25°C ambient temperature unless otherwise specified.

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

Characteristics	Symbol	MURS120-13-F	Units
Maximum recurrent peak reverse voltage	VRRM	200	V
Maximum RMS voltage	VRMS	140	V
Maximum DC blocking voltage	V DC	200	V
Maximum average forward at T _L =150°C Rectified current at T _A =125°C	I F(AV)	1 2	А
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load at T _J =125°C	Ігѕм	40	А
Typical reverse recovery time (Note 1)	trr	25	ns
Maximum reverse current at T _A =25°C at rated DC blocking voltage at T _A =125°C	lr	2 50	μΑ
Maximum instantaneous forward at T _J =25°C Voltage at 1A at T _J =150°C	VF	0.875 0.71	V
Typical thermal resistance (Note 2)	RөJA	13	°C/W
Operating / Storage junction temperature range	TJ, Tsтg	-65 to +175	°C

Note:

- (1) Measured with IF=0.5A, IR=1A, Irr=0.25A.
- (2) Junction to ambient.



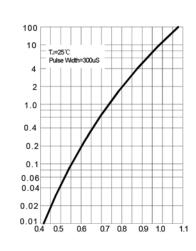


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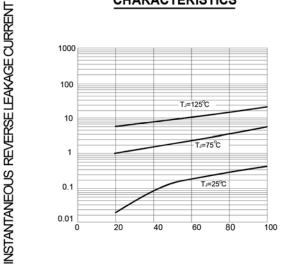
FIG.1 - TYPICAL FORWARD CHARACTERISTIC

INSTANTANEOUS FORWARD CURRENT AMPERES



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.2 -- TYPICAL REVERSE LEAKAGE CHARACTERISTICS

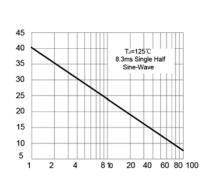


PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

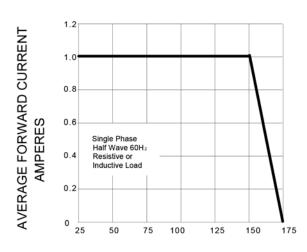
FIG.3 - PEAK FORWARD SURGE CURRENT

FIG.4 – FORWARD DERATING CURVE

PEAK FORWARD SURGE CURRENT AMPERES



NUMBER OF CYCLES AT 60Hz

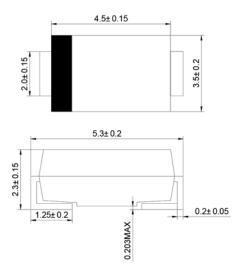


LEAD TEMPERATURE, ℃



Dimensions:

DO-214AA(SMB)



Dimensions: Millimetres

Part Number Table

Description	Part Number
Surface Mount Rectifier	MURS120-13-F

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