

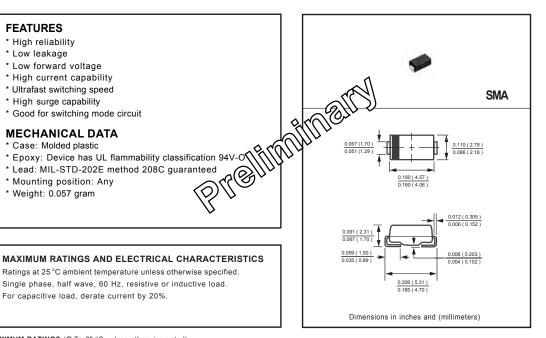
MURS120A MURS140A MURS160A

ULTRAFAST RECTIFIER

VOLTAGE RANGE 200 to 600 Volts CURRENT 1.0 Ampere

FEATURES

- * High reliability
- * Low leakage
- * Low forward voltage
- * High current capability
- * Ultrafast switching speed
- * High surge capability



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

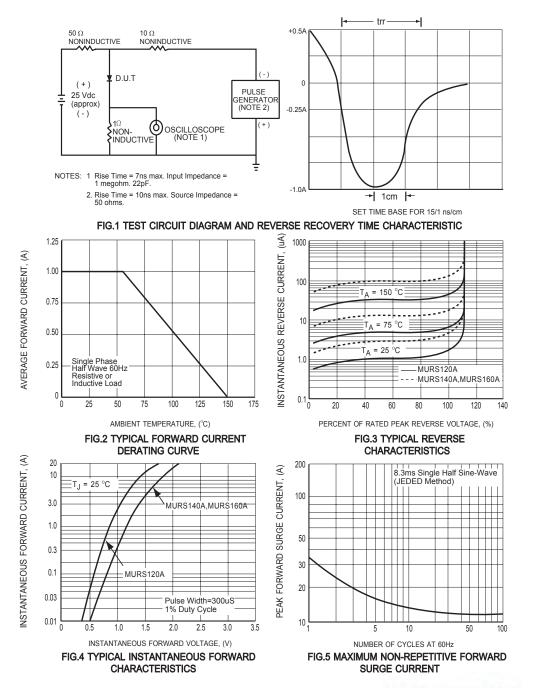
RATINGS	SYMBOL	MURS120A	MURS140A	MURS160A	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	Volts
Maximum RMS Voltage	V _{RMS}	140	280	420	Volts
Maximum DC Blocking Voltage	V _{DC}	200	400	600	Volts
Maximum Average Forward Rectified Current at T _A =55°C	lo	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	35			Amps
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150			°C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	MURS120A	MURS140A	MURS160A	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		V _F	0.875	1.25		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _J = 25°C	- I _R	2.0	5.0		
	@T _J = 150°C		50	15	60	uAmps
Maximum Reverse Recovery Time (Note 1)		trr	25	50		nSec

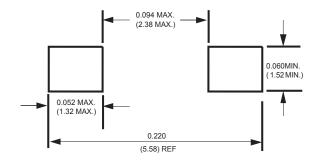
NOTES: 1. Test Conditions: $I_F = 0.5A$, $I_R = -1.0A$, $I_{RR} = -0.25A$ 2. "Fully ROHS complaint", "100% Sn plating (Pb-free)" 2010-02 REV: O

RATING AND CHARACTERISTICS CURVES (MURS120A THRU MURS160A)





Mounting Pad Layout



Dimensions in inches and (millimeters)



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