

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
- * Good for switching mode circuit

MECHANICAL DATA

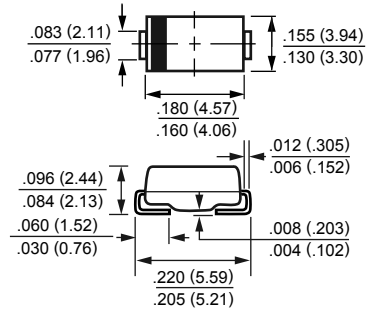
- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-0
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.057 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



DO-214AA



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	MURS120	MURS140	MURS160	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 $T_A=55^{\circ}C$	I_O	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

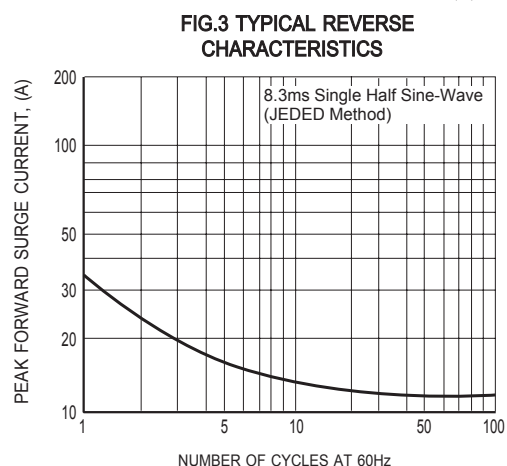
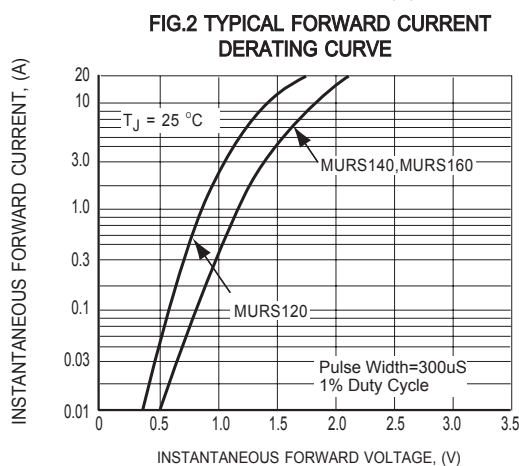
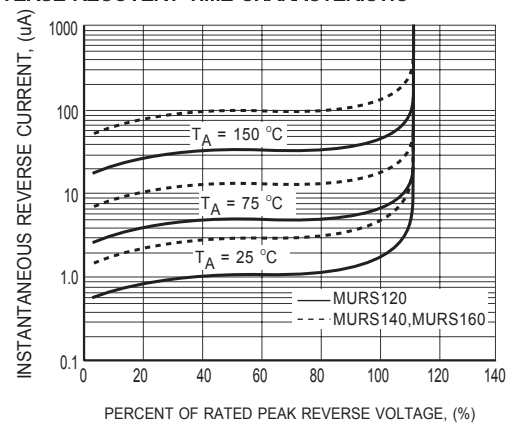
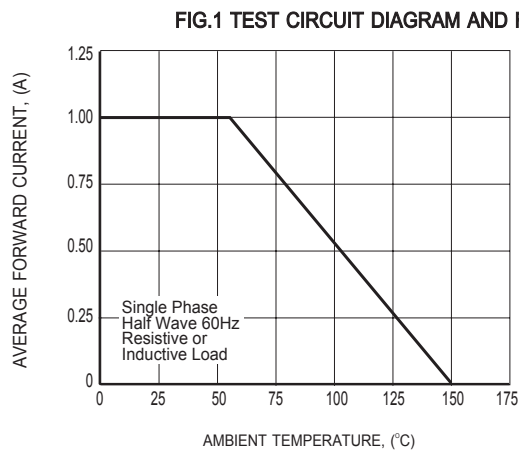
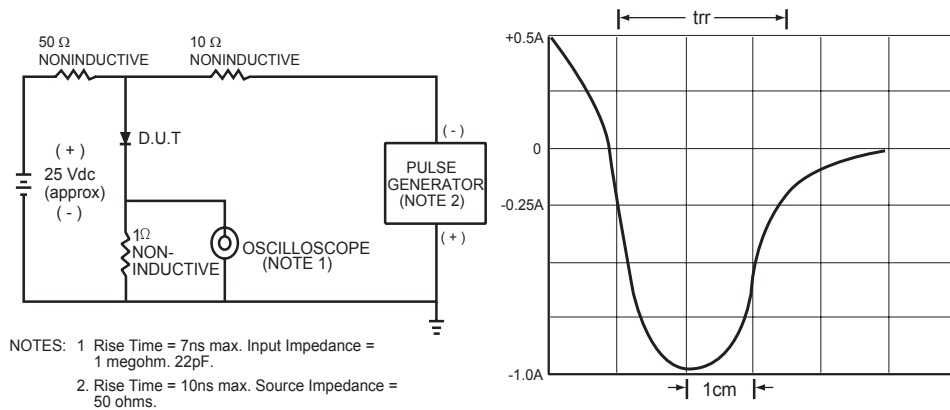
ELECTRICAL CHARACTERISTICS (@ TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	MURS120	MURS140	MURS160	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		uAmps
	@T _J = 150°C		50	150		
Maximum Reverse Recovery Time (Note 1)		trr	25	50		nSec

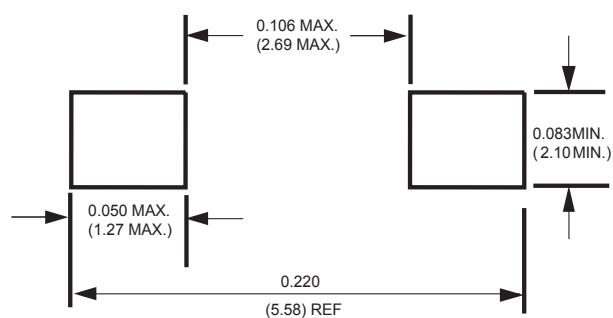
NOTES : 1. Test Conditions: $I_F = 0.5A$, $I_R = -1.0A$, $I_{RR} = -0.25A$
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)"

2010-02
REV: 0

RATING AND CHARACTERISTICS CURVES (MURS120 THRU MURS160)



Mounting Pad Layout



Dimensions in inches and (millimeters)

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