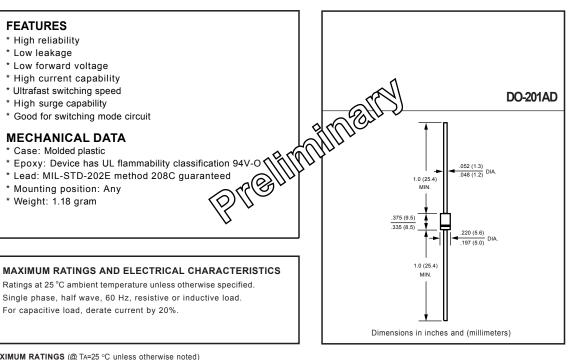


ULTRAFAST RECTIFIER

VOLTAGE RANGE 200 to 600 Volts CURRENT 4.0 Amperes

FEATURES

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



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	MUR420	MUR440	MUR460	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	I _O	4.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	125	110		Amps
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150			۰C

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

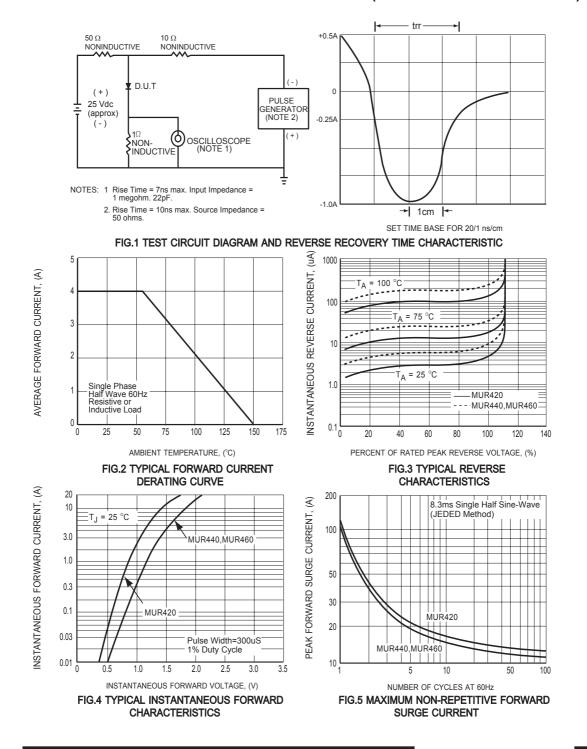
CHARACTERISTICS		SYMBOL	MUR420	MUR440	MUR460	UNITS
Maximum Instantaneous Forward Voltage at 4.0A DC		V _F	0.89	1.28		Volts
	@T _J = 25°C	- I _R -	5	10		
	@T _J = 100°C		150	25	50	uAmps
Maximum Reverse Recovery Time (Note 1)		trr	25	50		nSec

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: 0

RATING AND CHARACTERISTICS CURVES (MUR420 THRU MUR460)



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