



ULTRAFAST RECTIFIER

VOLTAGE RANGE 200 to 600 Volts CURRENT 3.0 Amperes

FEATURES

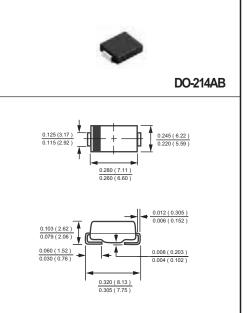
- * High reliability
- * Low leakage
- * Low forward voltage
- * High current capability
- * Ultrafast switching speed
- * High surge capability
- * Good for switching mode circuit
- * P/N suffix V means AEC-Q101 qualified, e.g:MURS320V
- * P/N suffix V means Halogen-free

MECHANICAL DATA

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

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%.



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	MURS320V	MURS340V	MURS360V	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	IO	3.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	75			Amps
Current Squarad Time	l ² t	23.3			
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150			

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

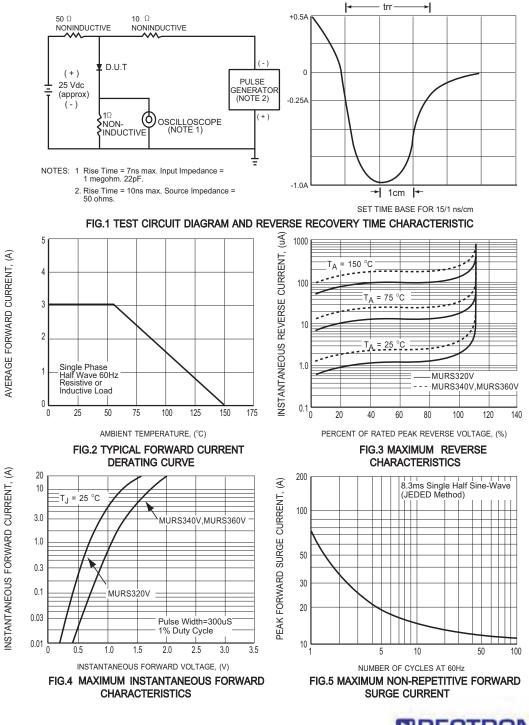
CHARACTERISTICS		SYMBOL	MURS320V	MURS340V	MURS360V	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC		VF	0.875	1.25		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A = 25°C	- I _R	5	1	uAmps	
	@T _A = 150°C		150	250		
Maximum Reverse Recovery Time (Note 1)		trr	25	50		nSec

NOTES : 1. Test Conditions: I_F = 0.5A, I_R = -1.0A, I_{RR} = -0.25A

2. "Fully RoHS complaint"

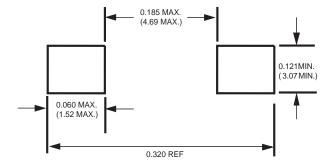
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RATING AND CHARACTERISTICS CURVES (MURS320V THRU MURS360V)



CRECTRON

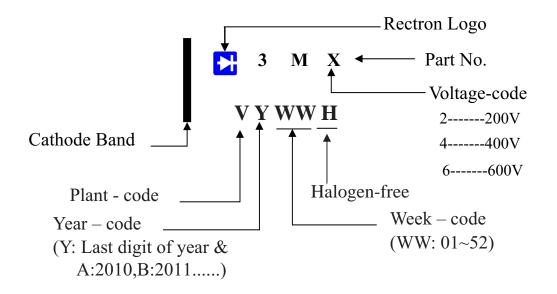
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



CRECTRON

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMC	-W/-T	3,000	3,000			330	360*355*360	24,000	11.50

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