

### **ULTRAFAST RECTIFIER**

VOLTAGE RANGE 200 Volts CURRENT 3.0 Amperes

### FEATURES

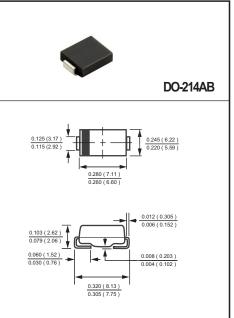
- \* High reliability
- \* Low leakage
- \* Low forward voltage
- \* High current capability
- \* Ultrafast switching speed
- \* High surge capability
- \* Good for switching mode circuit
- \* P/N suffix V means AEC-Q101 qualified, e.g:MURS3H20V
- \* P/N suffix V means Halogen-free

### **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	MURS3H20V	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	Volts
Maximum Average Forward Rectified Current at $T_c$ =140 $^{\circ}\text{C}$	Ι <sub>Ο</sub>	3.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	75	Amps
Current Squarad Time	l <sup>2</sup> t	23.3	A <sup>2</sup> /Sec
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 175	٥C

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

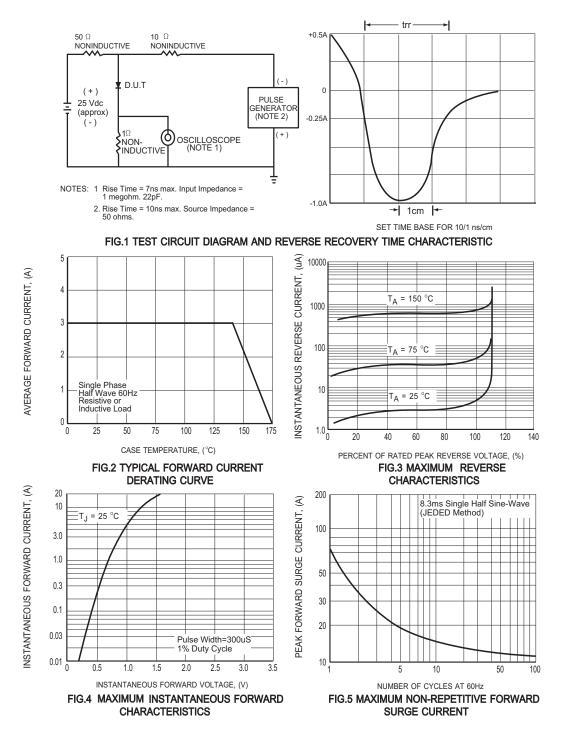
CHARACTERISTI	CS	SYMBOL	MURS3H20V	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC		VF	0.875	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	- I <sub>R</sub>	5	
	@T <sub>A</sub> = 150°C		800	uAmps
Maximum Reverse Recovery Time (Note 1)		trr	25	nSec

NOTES : 1. Test Conditions: I\_F = 0.5A, I\_R = -1.0A, I\_{RR} = -0.25A

2. " RoHS compliant"

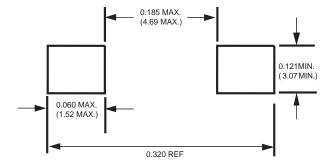
2023-06 REV:0

## RATING AND CHARACTERISTICS CURVES (MURS3H20V)



**C**RECTRON

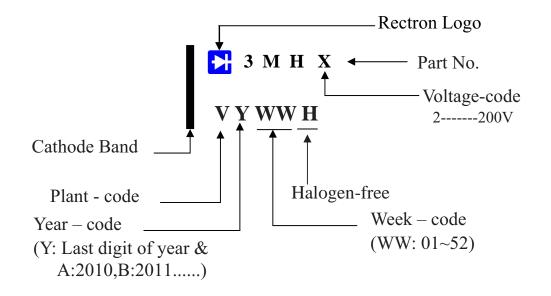
## **Mounting Pad Layout**



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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