

**MURS320 MURS340 MURS360** 

## **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

#### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.24 gram

# **DO-214AB** Dimensions in inches and (millimeters)

#### 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%.

#### $\textbf{MAXIMUM RATINGS} \ (@\ \texttt{TA=25}\ ^{\circ}\texttt{C}\ unless\ otherwise\ noted)$

RATINGS	SYMBOL	MURS320	MURS340	MURS360	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	400	600	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	140	280	420	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	400	600	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> =55°C	Io	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 + 150			۰c

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

CHARACTERISTICS		SYMBOL	MURS320	MURS340	MURS360	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC		V <sub>F</sub>	0.875	1.25		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	la.	5	10		uAmps
	@T <sub>A</sub> = 150°C	- IR	150	250		
Maximum Reverse Recovery Time (Note 1)		trr	25	50		nSec

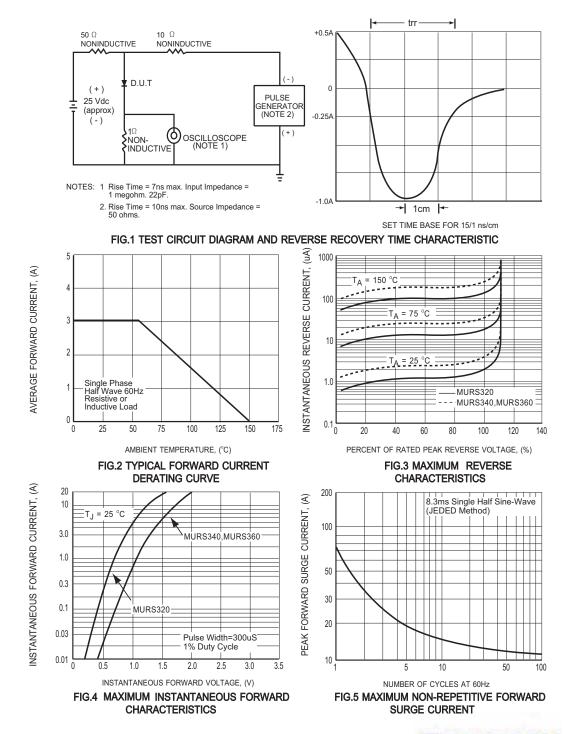
NOTES : 1. Test Conditions: I  $_{\rm F}$  = 0.5A, I  $_{\rm R}$  = -1.0A, I  $_{\rm RR}$  = -0.25A

- "Fully ROHS complaint", "100% Sn plating (Pb-free)"

  Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

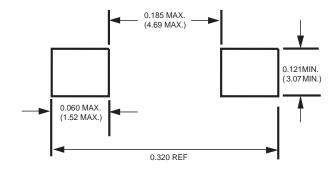
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# RATING AND CHARACTERISTICS CURVES (MURS320 THRU MURS360)





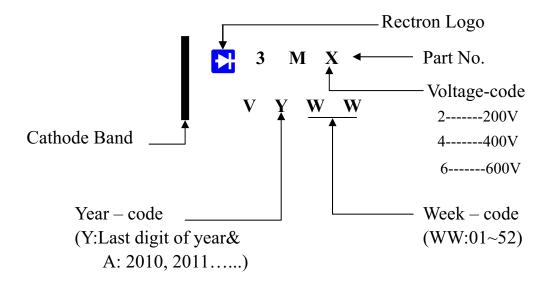
# **Mounting Pad Layout**



Dimensions in inches and (millimeters)



# **Marking Description**



# 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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