



ULTRAFAST RECTIFIER

VOLTAGE RANGE 200 to 600 Volts CURRENT 2.0 Amperes

FEATURES

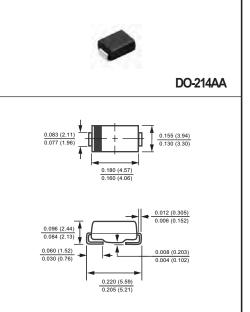
- * High reliability
- * Low leakage
- * Low forward voltage
- * High current capability
- * Ultrafast switching speed
- * High surge capability
- * Good for switching mode circuit

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.098 gram
- * P/N suffix V means AEC-Q101 qualified
- * P/N suffix V means Halogen-free

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	MURS220	MURS240	MURS260	UNITS	
Maximum Recurrent Peak Reverse Voltage	VRRM	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	2.0				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	40	3	Amps		
Current Square me	l ² t	6.6	5.0	A ² S		
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150				

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

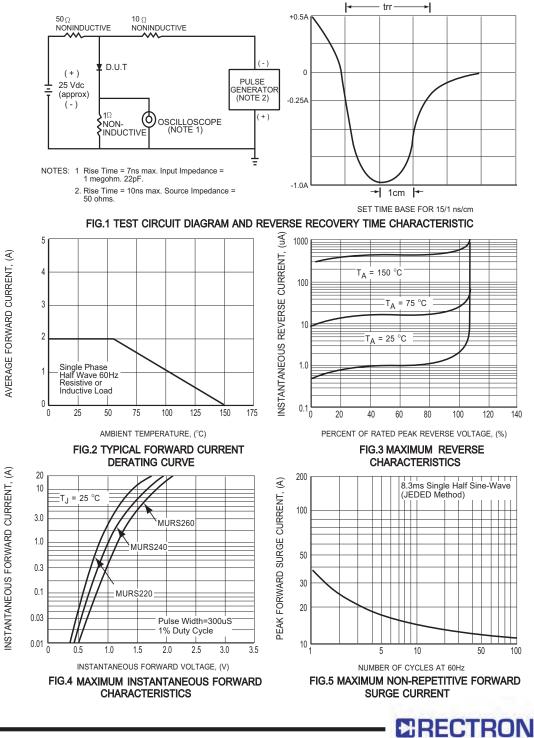
CHARACTERIST	SYMBOL	MURS220	MURS240	MURS260	UNITS				
Maximum Instantaneous Forward Voltage at 2.0A DC		VF	0.95	1.30	1.45	Volts			
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A = 25°C	– I _R	5						
	@T _A = 150°C		800						
Maximum Reverse Recovery Time (Note 1)		trr	25	5	nSec				

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

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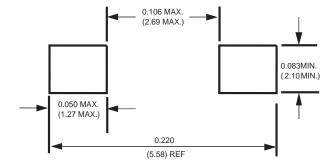
2018-01 REV:C

RATING AND CHARACTERISTICS CURVES (MURS220 THRU MURS260)



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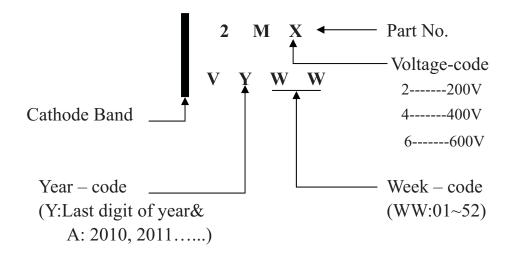
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



ERECTRON -

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)
SMB	-T	500	2,000			178	390*205*310	16,000	
SMB	-W	3,000	6,000			330	360*355*360	48,000	13.90

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