



## LOW Vf SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 1.0 Ampere

### **FEATURES**

- \* Low switching noise
- \* Low forward voltage drop
- \* High current capability
- \* High switching capability
- \* High surge capabitity
- \* High reliability

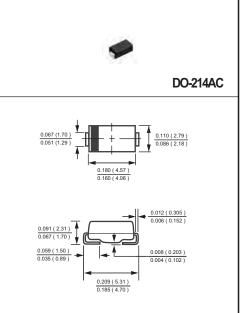
### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Metallurgically bonded construction
- \* Mounting position: Any
- \* Weight: 0.09 gram

Resistive or inductive load.



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	FMM120	FMM130	FMM140	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> =75°C	I <sub>0</sub>	1.0			
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	40			
Typical Current Square Time	I <sup>2</sup> T	6.6			A <sup>2</sup> S
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	85			°C/W
Typical Thermal Resistance (Note 1)	Røjl	25			°C/W
Typical Junction Capacitance (Note 2)	CJ	110			pF
Operating Temperature Range	Tj	150			
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150			

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

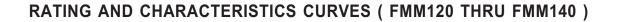
CHARACTERI	STICS	SYMBOL	FMM120	FMM140	UNITS		
Maximum Instantaneous Forward Voltag	VF	.44					
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	-	1.0				
at Rated DC Blocking Voltage	@T <sub>A</sub> = 150°C	'R	20				

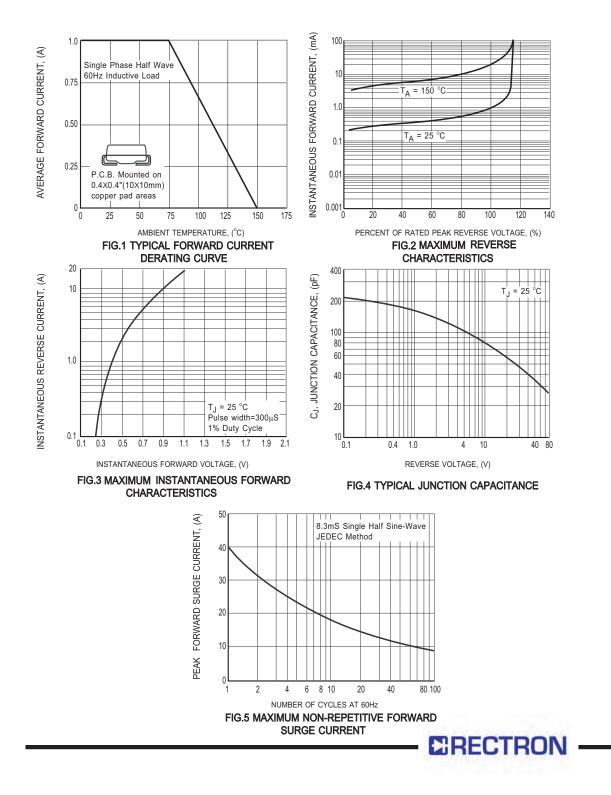
NOTES : 1. Thermal Resistance : Mounted on PCB. 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3. Also available in DO-214AA (SMB).

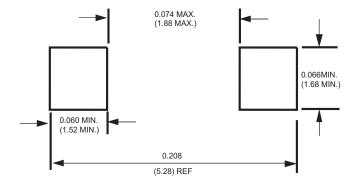
2019-01 REV:C







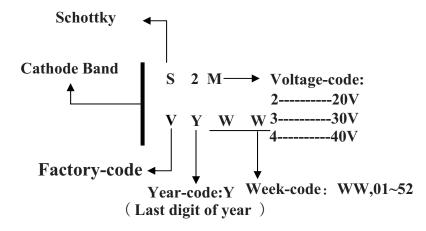
# **Mounting Pad Layout**



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)
SMA	-W	7,500	15,000			330	360*355*360	120,000	15.2

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)
SMA	-T	2,000	8,000			178	390*205*310	64,000	7.8

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