



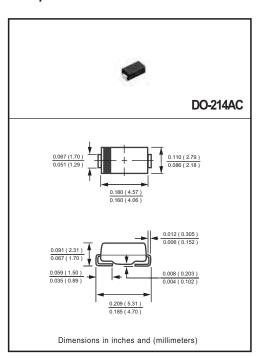
SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER VOLTAGE 2000 Volts CURRENT 1.0 Ampere

FEATURES

- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. resistive or inductive load.



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

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RATINGS	SYMBOL	FM2000	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	2000	Volts
Maximum RMS Voltage	V _{RMS}	1400	Volts
Maximum DC Blocking Voltage	V_{DC}	2000	Volts
Maximum Average Forward Rectified Current at Terminals Temperature	Io	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30	Amps
Current Squarad Time	I ² t	3.75	A ² Sec
Typical Thermal Resistance (Note 1)	R _{θJA}	45	°C/W
Typical Thermal Resistance (Note 1)	Røjt	10	°C/W
Typical Junction Capacitance (Note 2)	CJ	4.0	pF
Operating Temperature Range	TJ	-55 to + 175	۰C
Storage Temperature Range	T _{STG}	-55 to + 175	۰C

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

CHARACTERIS	STICS	SYMBOL	FM2000	UNITS				
Maximum Instantaneous Forward Voltage	e at 1.0A DC	VF	1.1	Volts				
Maximum Average Reverse Current	@T _A = 25°C		2.0	μА				
at Rated DC Blocking Voltage	@T _A = 150°C	IR IR	1.0	mA				
Typical Reverse Recovery Time (Note 3	5)	trr	2.0	uSec				

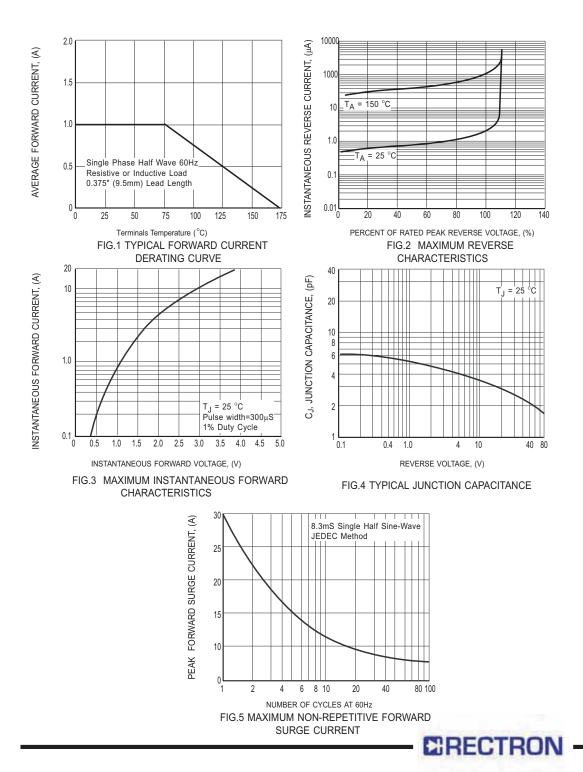
2022-03 REV: C

NOTES: 1. Thermal Resistance :Mounted on PCB.

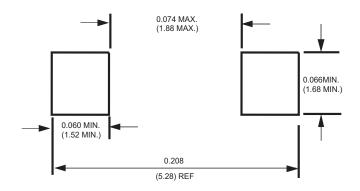
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

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

RATING AND CHARACTERISTICS CURVES (FM2000)



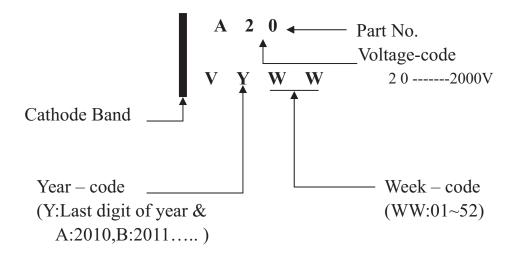
Mounting Pad Layout



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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