



TECHNICAL SPECIFICATION

FM2000

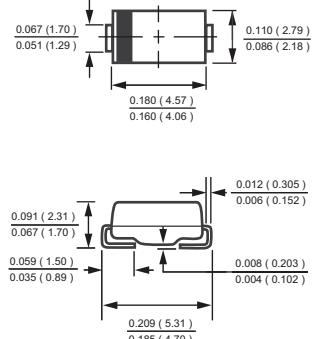
SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER VOLTAGE 2000 Volts CURRENT 1.0 Ampere

FEATURES

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



DO-214AC



Dimensions in inches and (millimeters)

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

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	I _O	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 Squared Time	I ² t	3.75	A ² Sec
Typical Thermal Resistance (Note 1)	R _{θJA}	45	°C/W
Typical Thermal Resistance (Note 1)	R _{θJT}	10	°C/W
Typical Junction Capacitance (Note 2)	C _J	15	pF
Operating Temperature Range	T _J	-55 to +175	°C
Storage Temperature Range	T _{STG}	-55 to +175	°C

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

CHARACTERISTICS	SYMBOL	FM2000	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	V _F	1.1	Volts
Maximum Average Reverse Current @ T _A = 25°C at Rated DC Blocking Voltage	I _R	2.0	µA
		1.0	mA
Typical Reverse Recovery Time (Note 3)	trr	2.0	uSec

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.

2020-01
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RATING AND CHARACTERISTICS CURVES (FM2000)

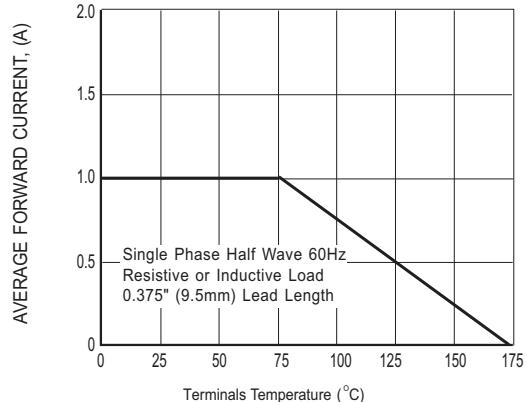


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

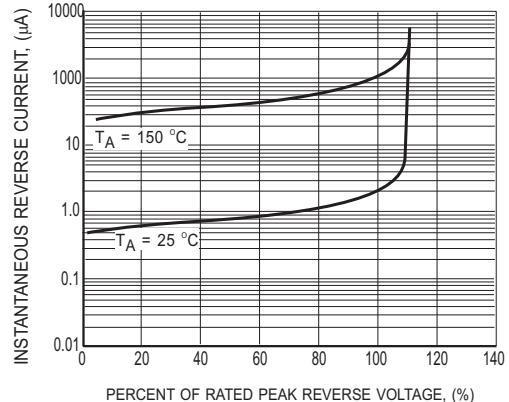


FIG.2 MAXIMUM REVERSE CHARACTERISTICS

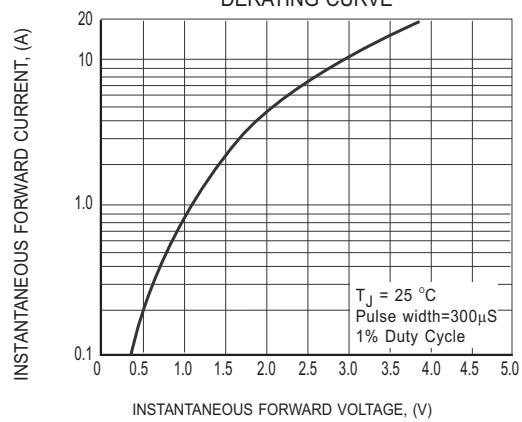


FIG.3 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

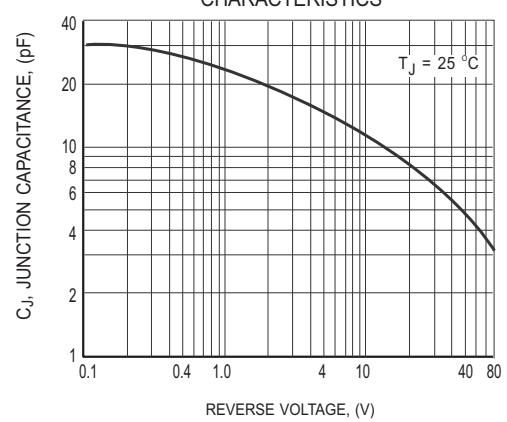


FIG.4 TYPICAL JUNCTION CAPACITANCE

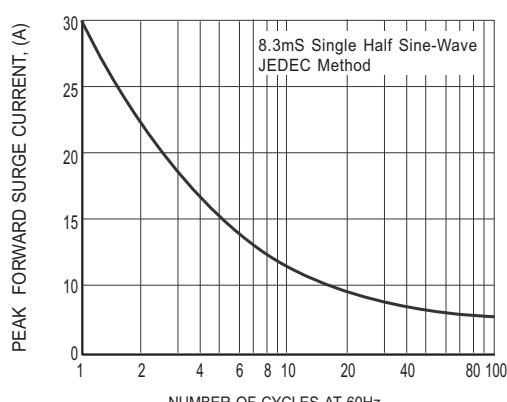
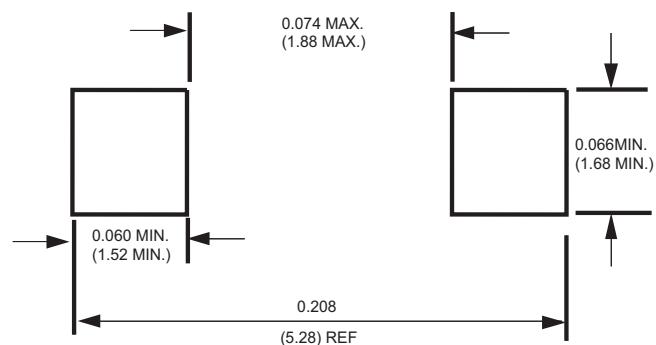


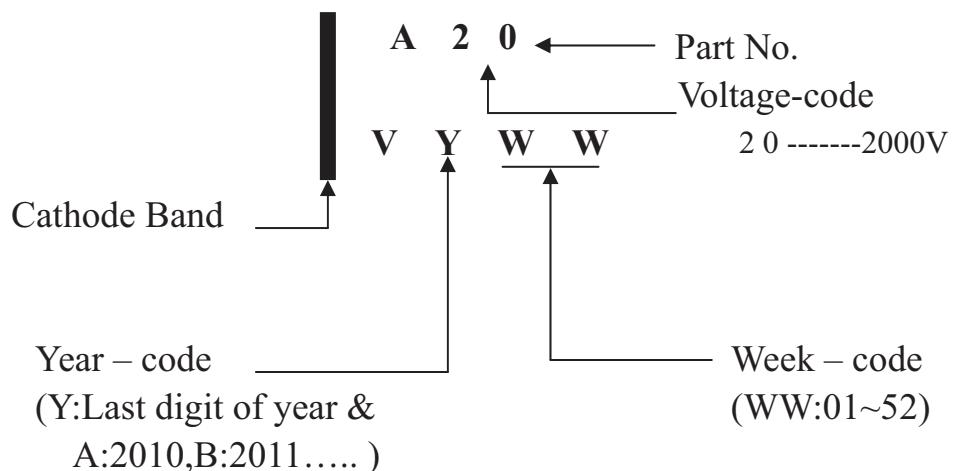
FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

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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