FM160W -W-A01

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 60 Volts CURRENT 1.0 Ampere

FEATURES

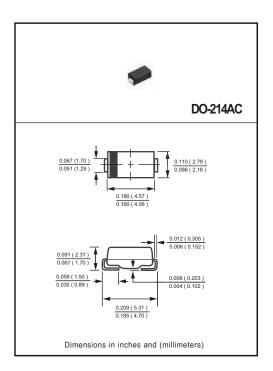
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

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)

RATINGS	SYMBOL	FM160W-W-A01	UNITS
Maximum Recurrent Peak Reverse Voltage		60	Volts
Maximum RMS Voltage		42	Volts
Maximum DC Blocking Voltage	V _{DC}	60	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	Io	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50	Amps
Typical Current Square Time	I ² T	10.38	A ² S
Typical Thermal Resistance (Note 1)	RθJA	85	°C/W
Typical Thermal Resistance (Note 1)	R _{θJL}	25	°C/W
Typical Junction Capacitance (Note 2)	CJ	110	pF
Operating Temperature Range	TJ	-55 to + 150	۰C
Storage Temperature Range	T _{STG}	-55 to + 150	۰C

$\textbf{ELECTRICAL CHARACTERISTICS} (@\text{TA=25} \ ^{\circ}\text{C unless otherwise noted})$

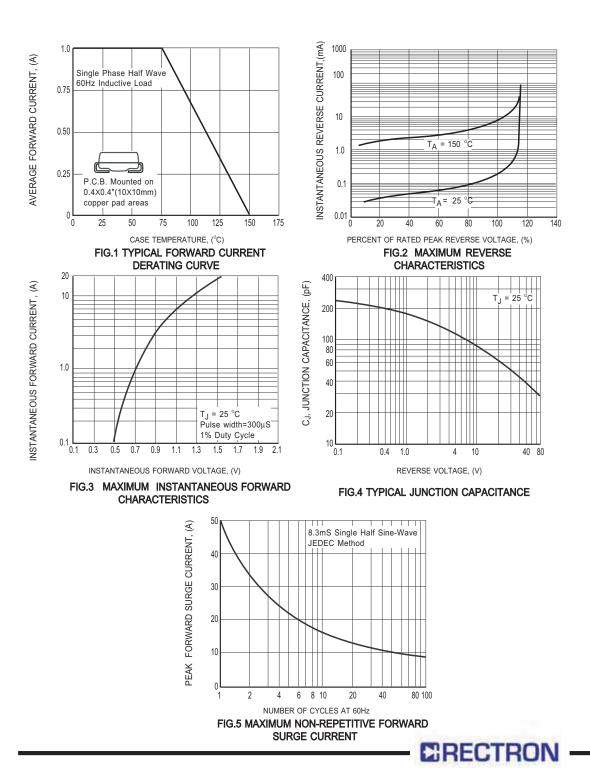
CHARACTERI	STICS	SYMBOL	FM160W-W-A01	UNITS
Maximum Instantaneous Forward Voltag	e at 1.0A DC	V _F	.70	Volts
Maximum Average Reverse Current	@T _A = 25°C	1-	0.2	mA
at Rated DC Blocking Voltage	@T _A = 150°C	IR	8.0	mΑ

NOTES: 1. Thermal Resistance: Mounted on PCB.

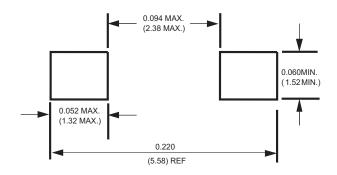
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. Also available in DO-214AA (SMB).
- 4. "ROHS compliant"

2019-04 REV: B

RATING AND CHARACTERISTICS CURVES (FM160W-W-A01)



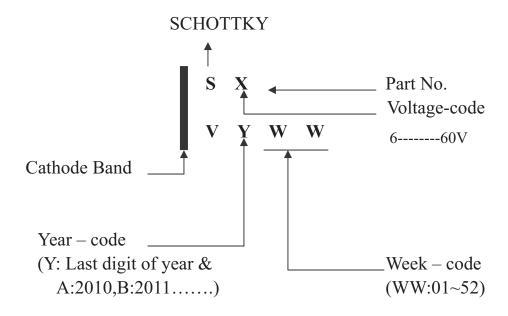
Mounting Pad Layout



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

DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures

