

FM5817 THRU FM5819

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 20 to 40 Volts CURRENT 1.0 Ampere

FEATURES

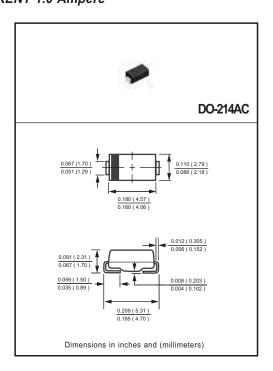
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Resistive or inductive load.



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

RATINGS	SYMBOL	FM5817	FM5818	FM5819	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	V _{RMS} 14		28	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current at T_A = 90°C	Io	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}		Amps		
Typical Current Square Time	I ² T	T 2.5			
Typical Thermal Resistance (Note 3)	R _{θJA}	88			0.004
Typical Thermal Resistance (Note 3)	R _{θJL}		° C/W		
Typical Junction Capacitance (Note 1)	CJ	110			pF
Operating Temperature Range	TJ	150			۰C
Storage Temperature Range	T _{STG}	-55 to + 150			۰c

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

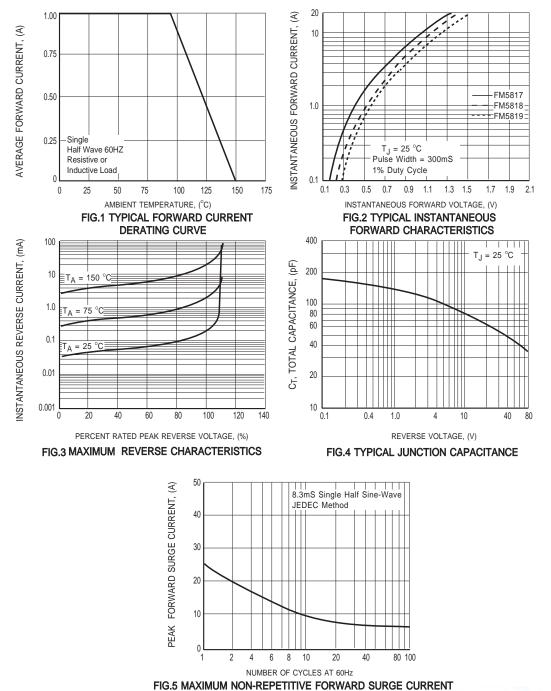
CHARACTERISTICS	SYMBOL	FM5817	FM5818	FM5819	UNITS
Maximum Instantaneous Forward Voltage at 1.0/	VF	.45	.55	.60	Volts
Maximum Instantaneous Forward Voltage at 3.1/	VF	.75	.875	.90	Volts
Maximum Average Reverse Current	@T _A = 25°C	la la		mAmps	
at Rated DC Blocking Voltage	@T _A = 150°C	I _R		mAmps	

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

- 2. "ROHS compliant".
- ${\it 3. Thermal \ Resistance: Mounted \ on \ PCB.}$
- 4. Also available in DO-214AA (SMB).
- 5. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2019-01 REV:C

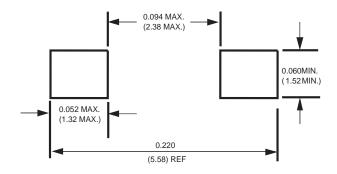
RATING AND CHARACTERISTICS CURVES (FM5817 THRU FM5819)







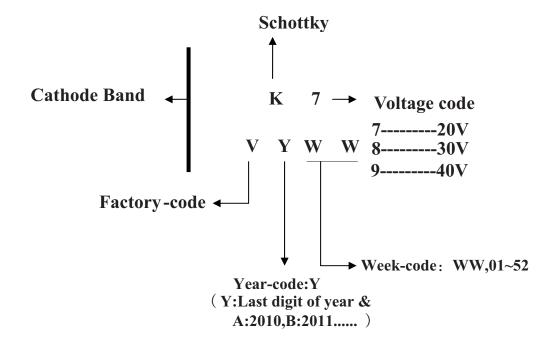
Mounting Pad Layout



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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