

FM5820A THRU FM5822A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 3.0 Ampere

FEATURES

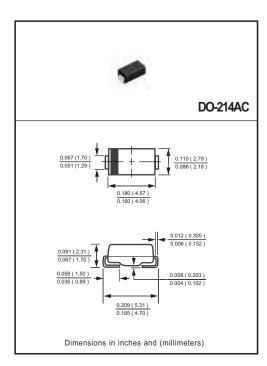
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.24 gram

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



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

RATINGS	SYMBOL	FM5820A	FM5821A	FM5822A	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14 21		28	Volts
Maximum DC Blocking Voltage	V _{DC}	20 30		40	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	Io	3.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	100			Amps
Typical Current Squared Time	I ² T	41.5			A ² S
Non-repetitive avalanche energy IRRM=1A, PW=2us, f= 1 kHz, Ind. 12mH	E _{AS}	6.0			mJ
Tunical Thomas Decistores (Note 2)	R _{θJA}	50			- °C/W
Typical Thermal Resistance (Note 3)	R _{θJL}	14			
Typical Junction Capacitance (Note 1)	CJ	200			pF
Operating Temperature Range	TJ	150			٥C
Storage Temperature Range	T _{STG}	-55 to + 150			۰c

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

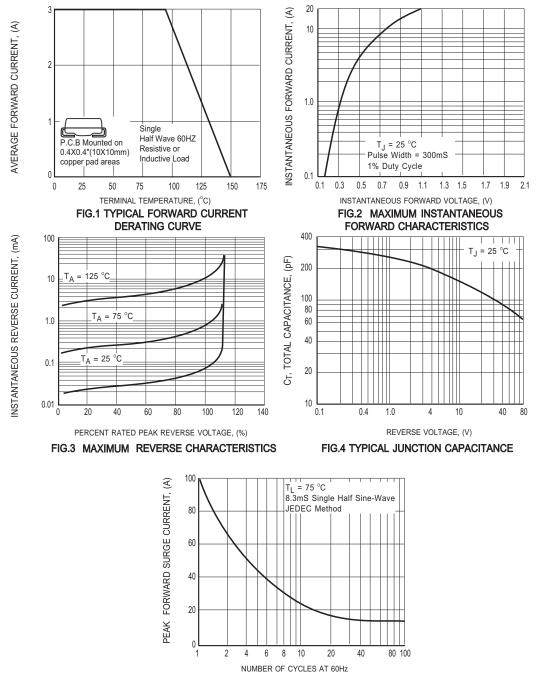
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CHARACTERISTICS	SYMBOL	FM5820A	FM5821A	FM5822A	UNITS	
Maximum Instantaneous Forward Voltage at 3	VF	.46			Volts	
Maximum Average Reverse Current	@T _A = 25°C		80			uAmps
at Rated DC Blocking Voltage	@T _A = 125°C	I _R	10			mAmps

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

- 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
- 3. Thermal Resistance : Mounted on PCB.
- 4. P/N suffix V means AEC-Q101 qualified

2017-12 REV: B

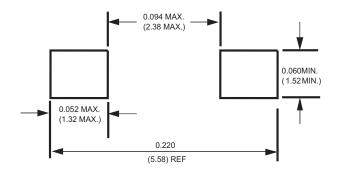
RATING AND CHARACTERISTICS CURVES (FM5820A THRU FM5822A)







Mounting Pad Layout



Dimensions in inches and (millimeters)



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	-T	1,500	6,000			178	390*205*310	48,000	8.40
SMA	-W	5,000	10,000			330	360*355*360	80,000	14.20

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