

FM420 THRU FM440

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 4.0 Amperes

FEATURES

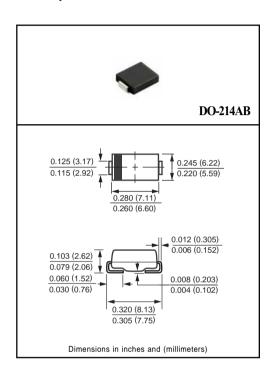
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any * Weight: 0.24 gram

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ 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 (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	FM420	FM430	FM440	UNITS	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	Volts	
Maximum RMS Voltage	VRMS	14	21	28	Volts	
Maximum DC Blocking Voltage	VDC	20	30	40	Volts	
Maximum Average Forward Rectified Current at Derating Lead Temperature	Io	4.0			Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	90				
Typical Thermal Resistance (Note 1)	RθJA	25				
Typical Junction Capacitance (Note 2)	CJ	200				
Operating Temperature Range	TJ	-55 to + 125				
Storage Temperature Range	Тѕтс	-55 to + 150				

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

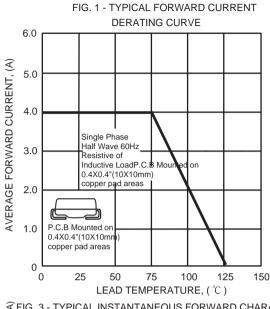
CHARACTERISTICS		SYMBOL	FM420	FM430	FM440	UNITS
Maximum Instantaneous Forward Voltage at 4.0A DC		VF	.55			Volts
Maximum Average Reverse Current	@Ta = 25°C	lR	2.0			mAmps
at Rated DC Blocking Voltage	@Ta = 100°C	IK IK	20			mAmps

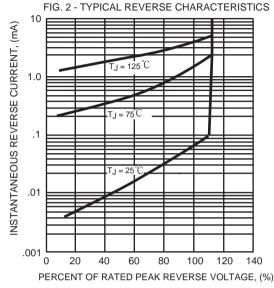
NOTES: 1. Thermal Resistance (Junction to Ambient).

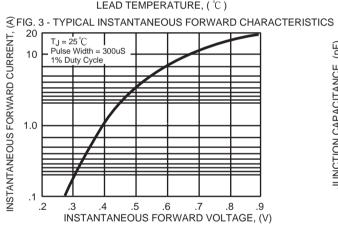
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. P.C.B Monuted with 0.4X0.4" (10.0X10.0mm²) copper pad area.

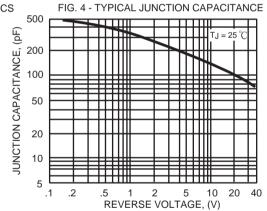
2002-4

RATING AND CHARACTERISTIC CURVES (FM420 THRU FM440)

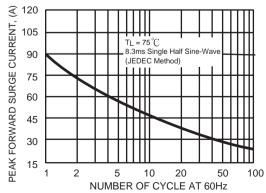




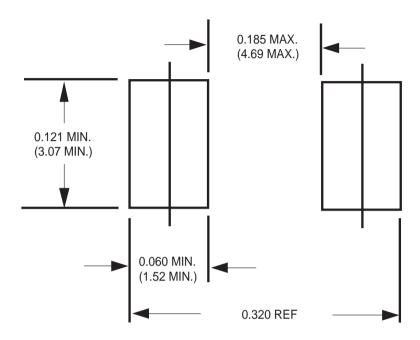








Mounting Pad Layout



Dimensions in inches and (millimeters)