APPROVAL SHEET



PART No.	FM400X	PRODUCT	PASSIVATED SILICON RECTIFIER							
QUANTITY		S/R No.								
CUSTOME	CUSTOMER:									
COMPANY	/ :									
CUSTOME	ER P/N:									
USED IN:										
CONTENT										
1.	1. SPEC DIMENSION AND PRODUCT CHARACTERISTIC CURVES									
2.	2. STANDARD PACKAGE									
3.	3. ATTACHMENT INFORMATION									
PREP. BY	: Ada_zhang	DATE:	2011-06-18							
APPR. BY: Richard Liu DATE: 2011-06-18										

CUSTOMER SIGN BACK:



FM4001 THRU FM4007

SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

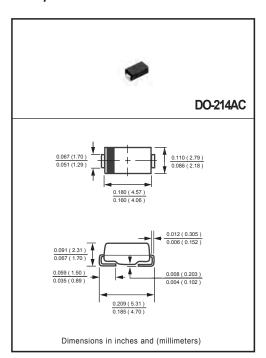
- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

MECHANICAL DATA

* Epoxy : Device has UL flammability classification 94V-0

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)

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)									
RATINGS	SYMBOL	FM4001	FM4002	FM4003	FM4004	FM4005	FM4006	FM4007	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at Ambient 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 A				Amps			
Current Squarad Time	I ² t	3.7 A ² /				A ² /Sec			
Typical Thermal Resistance (Note 1)	R _{θJA}	80				°C/W			
Typical Thermal Resistance (Note 1)	R _{θJL}	27 30				°C/W			
Typical Junction Capacitance (Note 2)	CJ	15				pF			
Operating Temperature Range	TJ	150					٥C		
Storage Temperature Range	T _{STG}	-55 to + 150					٥C		

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

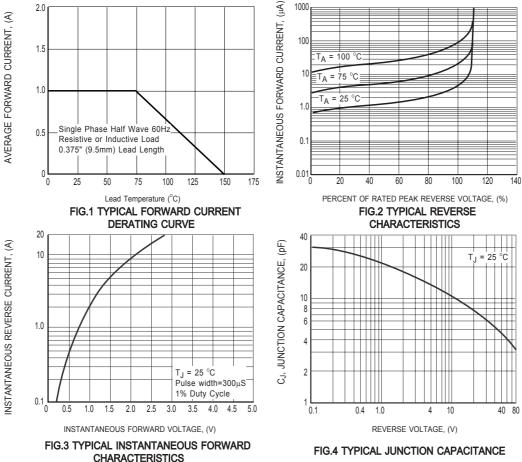
			,							
CHARACTERI	SYMBOL	FM4001	FM4002	FM4003	FM4004	FM4005	FM4006	FM4007	UNITS	
Maximum Instantaneous Forward Voltage at 1.0A DC		V _F				1.1				Volts
Maximum Average Reverse Current @T _A = 25°C						5.0				μА
at Rated DC Blocking Voltage QT _A = 100°C		I _R				100				пΑ

NOTES: 1. Thermal Resistance: Mounted on PCB.

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2009-09

RATING AND CHARACTERISTICS CURVES (FM4001 THRU FM4007)



CHARACTERISTICS

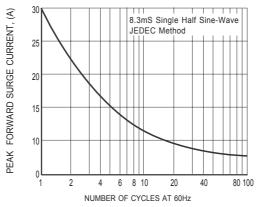
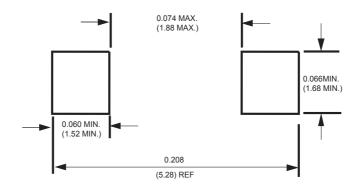


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



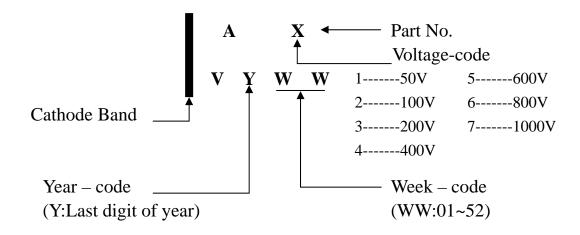
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



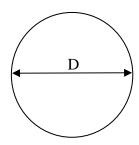
PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)		GROSS WEIGHT(Kg)
SMA	-T	1,500			178	390*205*310	48,000	8.40
SMA	-W	5,000			330	355*360*350	80,000	14.20

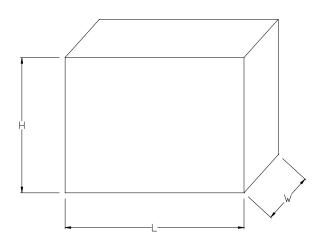


1. REEL



Packing	D			
Code	(mm)			
-T	178			
-W	330			

2. CARTON



Packing	Packing L		Н	
Code	(mm)	(mm)	(mm)	
-T	390	205	310	
-W	355	360	350	

REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES-FLAT MELF (SMA/SMB/SMC)

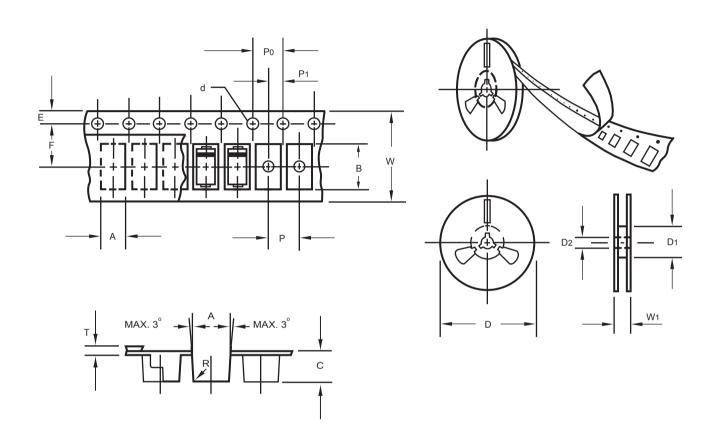


Fig.: Configuration of FLAT MELF TAPING (SMA/SMB/SMC)

ITEM	SYMBOL	DO214AC (SMA) mm(inch)	DO214AA (SMB) mm(inch)	DO214AB (SMC) mm(inch)
Carrier width	А	2.6 ± 0.15 (0.102 ± 0.006)	3.65 ± 0.1 (0.144 ± 0.004)	6.0 ± 0.1 (0.236 ± 0.004)
Carrier length	В	5.15 ± 0.15 (0.203 ± 0.006)	5.69 ± 0.1 (0.224 ± 0.004)	8.30 ± 0.1 (0.327 ± 0.004)
Carrier depth	С	2.3 ± 0.15 (0.091 ± 0.006)	2.67 ± 0.1 (0.105 ± 0.004)	2.5 ± 0.1 (0.098 ± 0.004)
Sprocket hole	d	1.5 ± 0.1 (0.059 ± 0.004)	1.5 ± 0.1 (0.059 ± 0.004)	1.5 ± 0.1 (0.059 ± 0.004)
Reel outside diameter	D	178 ± 2.0 (7.0 ± 0.079)	178 ± 2.0 (7.0 ± 0.079)	178 ± 2.0 (7.0 ± 0.079)
Reel inner diameter	D1	50 Min.	50 Min.	50 Min.
Feed hole diameter	D2	13 ± 0.5 (0.512 ± 0.020)	13 ± 0.5 (0.512 ± 0.020)	13 ± 0.5 (0.512 ± 0.020)
Strocket hole position	E	1.5 ± 0.1 (0.059 ± 0.004)	1.5 ± 0.1 (0.059 ± 0.004)	1.5 ± 0.1 (0.059 ± 0.004)
Punch hole position	F	5.65 ± 0.05 (0.222 ± 0.002)	5.65 ± 0.05 (0.222 ± 0.002)	7.65 ± 0.05 (0.301 ± 0.002)
Punch hole pitch	Р	4.0 ± 0.1 (0.157 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)
Sprocket hole pitch	P0	4.0 ± 0.1 (0.157 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)
Embossment center	P1	2.0 ± 0.1 (0.079 ± 0.004)	2.0 ± 0.1 (0.079 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)
Totall tape thickness	T	0.30 ± 0.05 (0.012 ± 0.002)	0.6 Max.	0.6 Max.
Tape width	W	12.0 ± 0.2 (0.472 ± 0.008)	12.0 ± 0.2 (0.472 ± 0.008)	16.0 ± 0.2 (0.630 ± 0.008)
Reel width	W1	16.8 ± 2.0 (0.661 ± 0.079)	16.8 ± 2.0 (0.661 ± 0.079)	24.0 ± 2.0 (0.945 ± 0.079)

Note: 1.Devices are packed in accordance with EIA standard RS-481-A and specification given above.

2. Available on 7 inch (1500 ct.) or 13 inch (5000 ct.) diameter reels.

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