



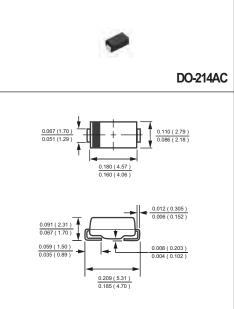
SURFACE MOUNT GLASS PASSIVATED SUPER FAST SILICON RECTIFIER VOLTAGE RANGE 50 to 600 Volts CURRENT 1.0 Ampere

FEATURES

- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction

MECHANICAL DATA

- * Epoxy : Device has UL flammability classification 94V-0
- * Mounting position: Any
- * Weight: 0.057 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. Resistive or inductive load.

Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	EFM101	EFM102	EFM103	EFM104	EFM105	EFM106	EFM107	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	Volts
aximum Average Forward Rectified Current Io 1.0						Amps			
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							Amps
Typical Current Square Time	I ² T	3.7							A ² S
Typical Thermal Resistance (Note 3)	R _{0JA}	85							°C/W
Typical memial Resistance (Note 5)	R _{θJL}	35							0/11
Typical Junction Capacitance (Note 2)	CJ	10						pF	
Operating and Storage Temperature Range T_J, T_{STG} -55 to + 150							٥C		

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

CHARACTERISTICS	SYMBOL	EFM101	EFM102	EFM103	EFM104	EFM105	EFM106	EFM107	UNITS	
Maximum Instantaneous Forward Voltage at 1.0ADC	VF		0.95 1.25				1.50	Volts		
Maximum DC Reverse Current	@T _A = 25°C	1-	5.0							μAmps
at Rated DC Blocking Voltage	@T _A = 150°C	IR	2.0							mAmps
Maximum Reverse Recovery Time (Note 1)	trr	35 50				50	nSec			

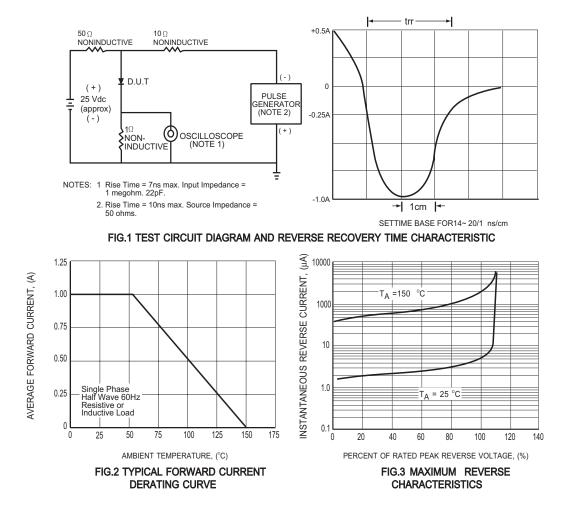
NOTES : 1. Reverse Recovery Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A

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

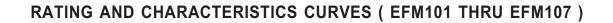
3. Thermal Resistance : Mounted on PCB.

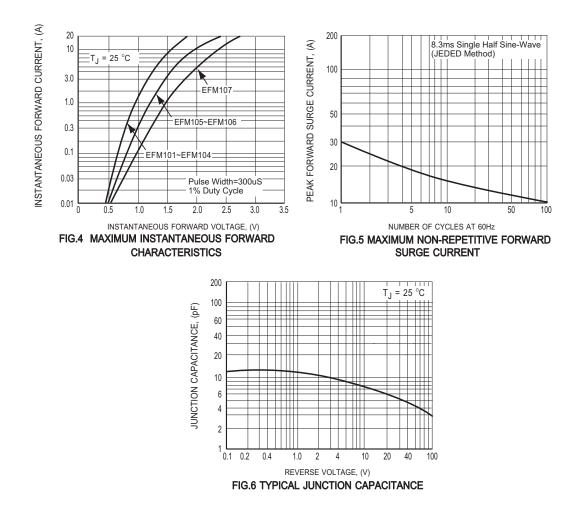
2022-02 REV:G

RATING AND CHARACTERISTICS CURVES (EFM101 THRU EFM107)



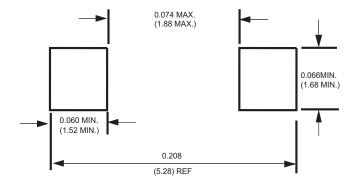








Mounting Pad Layout



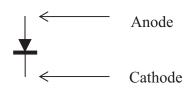
Dimensions in inches and (millimeters)



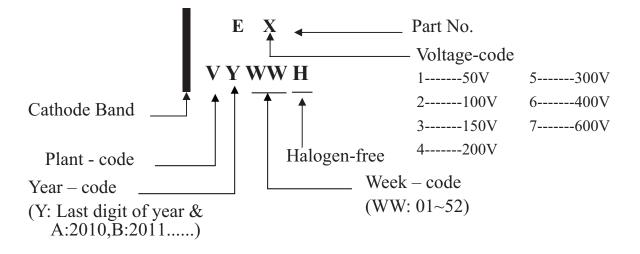


Attachment information about EFM10X

1. Internal Circuit



2. Marking on the body





Attachment information about EFM10X

4. Items marked on the reel box and carton

4.1 On the reel (for –T & -W) CUSTOMER TYPE QUANTITY LOT NO. **Q.A.** REMARK **4.2 On the box (for –T & -W)** TYPE QUANTITY LOT NO. **Q.A.** 4.3 On the carton **CUSTOMER** TYPE **QUANTITY** LOT NO. REMARK

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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