FM101-FM107

Surface Mount Rectifiers

RoHS COMPLIANT

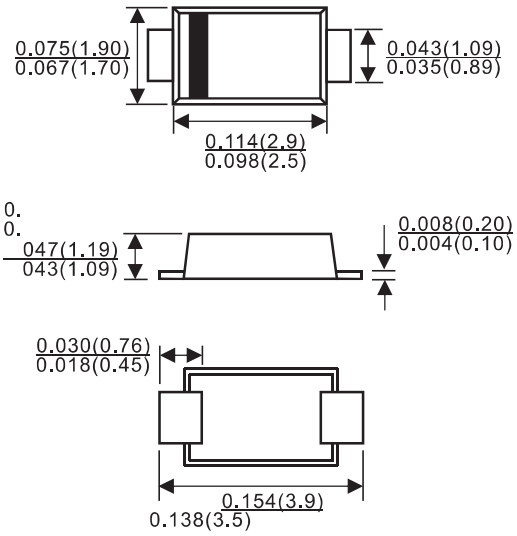
Features

- ✧ Glass passivated device
- ✧ Ideal for surface mouted applications
- ✧ Low leakage current
- ✧ Metallurgically bonded construction
- ✧ High temperature soldering:
  250℃/10 seconds at terminals

REVERSE VOLTAGE: 100 - 1000 V

CURRENT: 1.0 A

SOD-123FL



Dimensions in inches and(millimeters)

Mechanical Data

- ✧ Case:JEDEC SOD-123FL,molded plastic over passivated chip
- ✧ Terminals:Solder Plated, solderable per MIL-STD-750, Method 2026
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight: 0.0008 ounces, 0.022 gram
- ✧ Mounting position: Any

Marking Information

LGE：Lu Guang Electronic

XXXX：marking code (F1-F7)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single hase,half wave,60Hz,resistive or inductive load.For capactive load,derate current by 20%.

ABSOLUTE RATINGS

		FM 101	FM 102	FM 103	FM 104	FM 105	FM 106	FM 107	UNITS
Device marking code		F1	F2	F3	F4	F5	F6	F7	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forword rectified current @T_A=75℃	$I_{(AV)}$	1.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	30							A
Maximum instantaneous forward voltage @I_{FM}=1.0A (Note 1)	V_F	1.15							V
Maximum DC reverse current @T_A=25℃ at rated DC blocking voltage @T_A=125℃	I_R	5 50							μA
Maximum reverse recovery time	Trr	150				250	500		ns
Typical junction capacitance measured at f=1MHz,V_R=4.0V	C_J	4							p F
Typical thermal resistance junction to lead	$R_{\theta JL}$	20							℃/W
Operating temperature range	T_j	- 55 --- + 150							℃
Storage temperature range	T_{STG}	- 55 --- + 150							℃

NOTE1.Pulse test: pulse width 300μsec,duty cycle 2%.

FM101-FM107

Surface Mount Rectifiers

RoHS COMPLIANT

Ratings AND Charactieristic Curves

FIG.1 –TYPICAL FORWARD CHARACTERISTIC

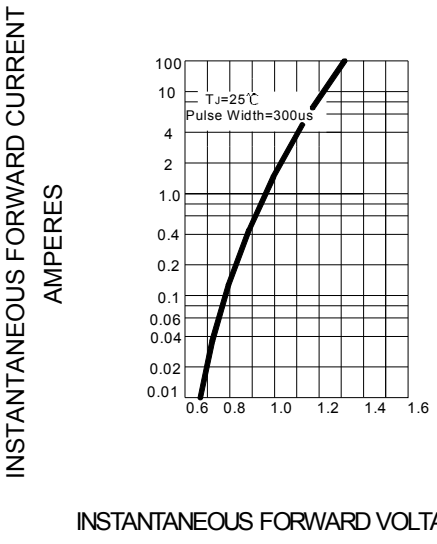


FIG.2 – TYPICAL JUNCTION CAPACITANCE

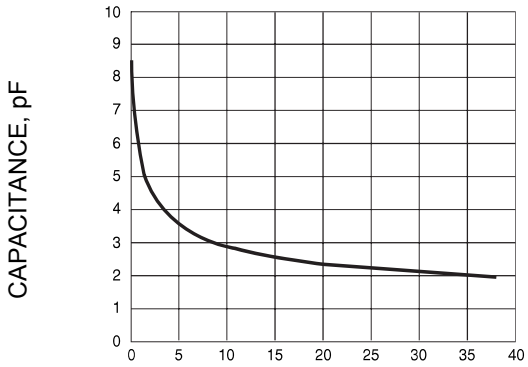


FIG.3 – TYPICAL INSTANTANEOUS REVERSE CHARACTERISTICS

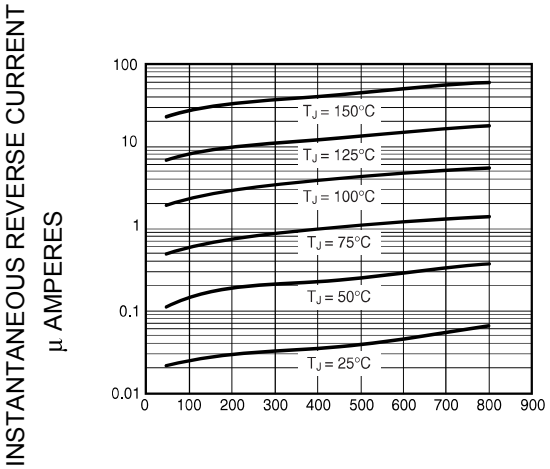
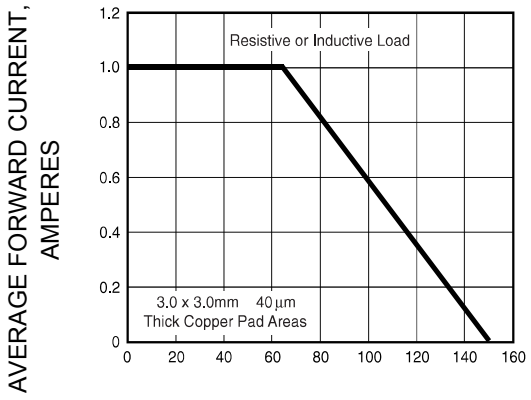


FIG.4 – FORWARD DERATING CURVE



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SOD-123FL	3000/REEL	90000	40X20X22	5.00	4.00

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching ***category:***

Click to view products by LGE ***manufacturer:***

Other Similar products are found below :

MCL4151-TR3 MMBD3004S-13-F RD0306T-H 1N3611 NTE156A NTE574 NTE6244 1SS193,LF 1SS400CST2RA SDAA13 SHN2D02FUTW1T1G LS4151GS08 1N4449 1N456A 1N4934-E3/73 1N914BTR RFUH20TB3S D291S45T BAV300-TR BAW56DWQ-7-F BAW56M3T5G BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 JAN1N4454UR-1 LL4151-GS18 SMMSD4148T3G BYW95B/A52A NSVDAN222T1G CDSZC01100-HF LL4150-M-08 1N4454-TR BAV70HDW-7 BAS28-7 JANTX1N6640 BAW56HDW-13 BAS28 TR VS-HFA04SD60STR-M3 NSVM1MA152WKT1G 1SS388-TP RGP30D-E3/73 VS-8EWF02S-M3 BAV99TQ-13-F BAV99HDW-13 MMDB30-E28X IDP20C65D2XKSA1 LS4148 IDV15E65D2 NSVM1MA152WAT1G