

- ●Low profile package
- ● Ideal for automated placement
- ● Guardring for overvoltage protection
- ● Low power losses, high efficiency
- ● High forward surge capability
- ● Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- ● Part no. with suffix “Q” means AEC-Q101 qualified

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, automotive and polarity protection applications.

- ● : SOD-323HE
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- ● : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- ● Cathode line denotes the cathode end

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			FM115EQ
Device marking code			115
Repetitive peak reverse voltage	V_{RRM}	V	150
Maximum RMS voltage	V_{RMS}	V	105
Maximum DC blocking voltage	V_{DC}	V	150
Maximum average forward rectified current at T_L (Fig.1)	IF $_{AV}$	A	1.0
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, T_J=25	I_{FSM}	A	30
Voltage rate of change (rated V_R)	dV/dt	V/μs	10000
Storage temperature	T_{stg}		-55 ~+175
Junction temperature	T_J		-55 ~+175

■ (T_a=25 Unless otherwise specified)

Instantaneous forward voltage	V_F	I_F=1A	T_J=25	0.8	0.9	V
			T_J=125	-	0.7	
Reverse current	I_R	Rated V_R	T_J=25	-	1	uA
			T_J=125	-	50	uA
Typical junction capacitance	C_J	V_R=4V,f=1MHz		25	-	pF

■ (T_a=25 Unless otherwise specified)

Thermal resistance	$R_{\theta J-A}$	/W	260 [1]
	$R_{\theta J-L}$		70 [1]
	$R_{\theta J-SP}$		10 [2]

Note:

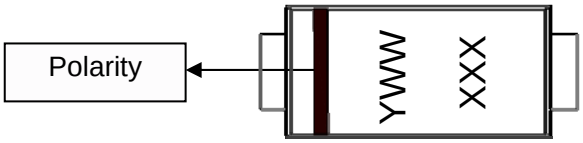
(1) Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B without copper pad areas.

(2) Thermal resistance between junction and cathode tab solder point.

■ (Typical)

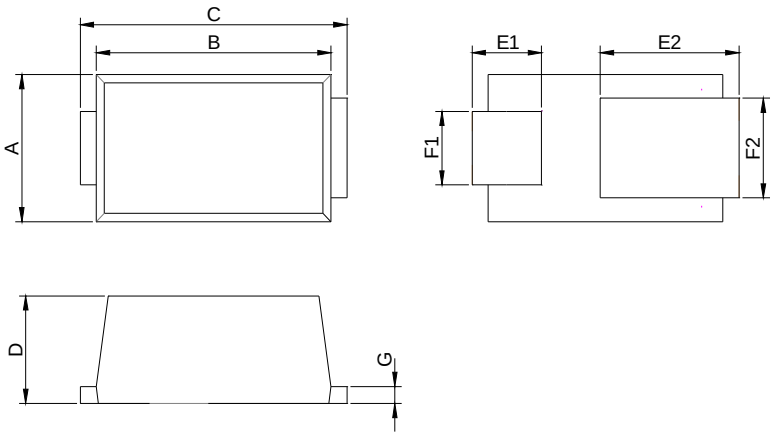
■ (Example)

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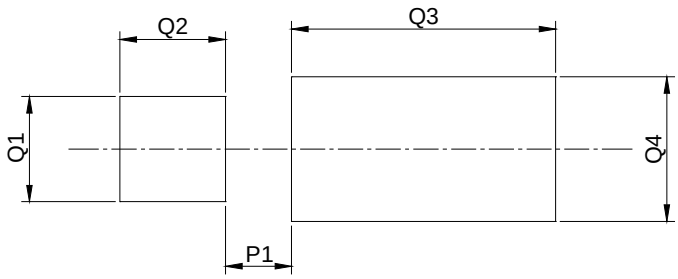


Note:
1. All marking is at middle of the product body
2. All marking is in laser printing
3. XXX is marking code, like FM115EQ marking code is 115
4. Body color: Black
5. YWW is date code, “Y” is year. “WW” is week.
For instance:
The 17th week of 2022, date code is 217
The 17th week of 2023, date code is 317

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Dim	Millimeters	
	Min	Max
A	1.20	1.40
B	2.10	2.30
C	2.30	2.70
D	0.90	1.00
E1	0.55	0.75
E2	1.10	1.50
F1	0.55	0.75
F2	0.78	0.98
G	0.12	0.27



Dim	Millimeters
P1	0.50
Q1	0.80
Q2	0.80
Q3	2.00
Q4	1.10