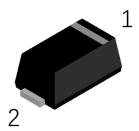
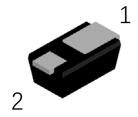




Surface Mount Schottky Rectifier







Features

- •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

Typical Applications

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

Mechanical Date

• Package: SOD-323HE

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

 Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: Cathode line denotes the cathode end

■Maximum Ratings (Tj=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	FM14EQ
Device marking code			14
Repetitive peak reverse voltage	V_{RRM}	V	40
Maximum RMS voltage	V_{RMS}	V	28
Maximum DC blocking voltage	V_{DC}	V	40
Maximum average forward rectified current at T _L (Fig.1)	IF (AV)	Α	1.0
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, T _J =25°C	I _{FSM}	А	30
Voltage rate of change (rated V_R)	dV/dt	V/µs	10000
Storage temperature	T_{stg}	°C	-55 ~+150
Junction temperature	T _J	°C	-55 ~+150

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
In about an accordance of the second control		I _F =1A	T _J =25°C	0.5	0.55	- V
Instantaneous forward voltage	V_{F}		T _J =125°C	-	0.45	
Deveree current	ı	I _R Rated V _R	T _J =25°C	2	50	μΑ
Reverse current	IR		T _J =125°C	-	10	mA
Typical junction capacitance	CJ	V _R =4V,f=1MHz		55	-	pF

FM14EQ

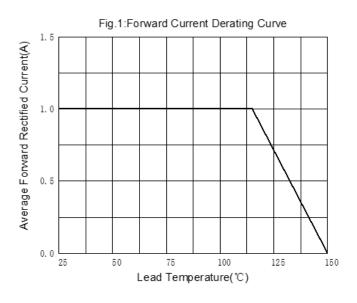
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

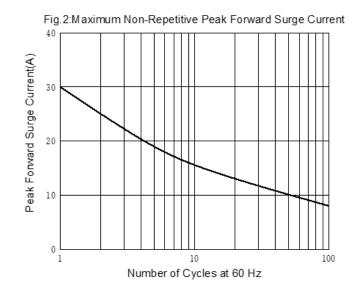
PARAMETER	SYMBOL	UNIT	FM14EQ
Thermal resistance	$R_{\theta J-A}$	°C/W	260 ⁽¹⁾
	$R_{\theta J-L}$		65 [⊕]
	R _{eJ-SP}		10 [©]

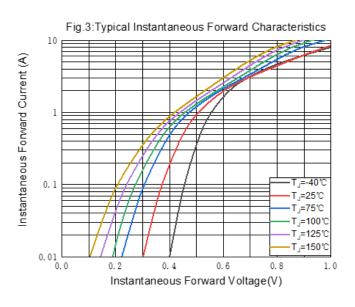
Note:

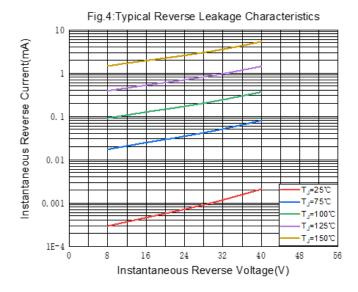
- (1) Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B without copper pad areas.
- (2) Thermal resistance between junction and cathode tab solder point.

■ Characteristics(Typical)







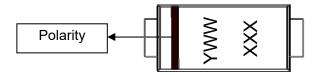


■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
FM14EQ	F1	Approximate 0.008	3000	120000	7" reel



■ Marking Information



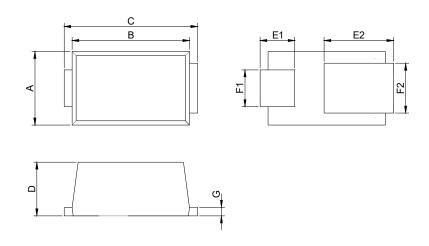
Note:

- 1. All marking is at middle of the product body
- 2. All marking is in laser printing
- 3. XXX is marking code, like FM14EQ marking code is 14 4. Body color: Black
- 5. YWW is date code, "Y" is year. "WW" is week.

For instance:

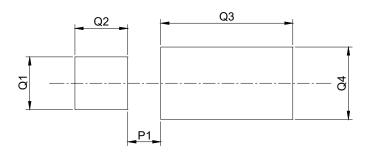
The 17th week of 2022, date code is 217 The 17th week of 2023, date code is 317

■ Outline Dimensions



SOD-323HE				
Dim	Millimeters			
ווווט	Min	Max		
Α	1.20	1.40		
В	2.10	2.30		
С	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		

■ Suggested pad layout



SOD-323HE			
Dim	Millimeters		
P1	0.50		
Q1	0.80		
Q2	0.80		
Q3	2.00		
Q4	1.10		



FM14EQ

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with automotive electronics, are not designed for use in medical, lifesaving, lifesust aining, or military, Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http://www.21yangjie.com, or consult your nearest Yangjie's sales office for further assistance.