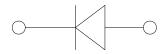




Surface Mount Schottky Rectifier







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

Typical Applications

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

Mechanical Date

• Package: SOD-323HT

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	FM14T
Device marking code			14T
Repetitive peak reverse voltage	VRRM	V	40
Maximum RMS Voltage	VRMS	V	28
Average rectified output current @60Hz sine wave, Resistance load, T _L (FIG.1)	IO	Α	1.0
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Tj=25°C	IFSM	Α	30
Storage temperature	T _{stg}	°C	-55 ~+150
Junction temperature	Tj	°C	-55 ~+125

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

				1 /
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	FM14T
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=1.0A	0.55
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	IRRM	mA ·	Tj=25°C	0.10
			Tj=100°C	10

Note1:Pulse test:300uS pulse widh,1% duty cycle

Note2:Pulse test:pulse widh 40mS

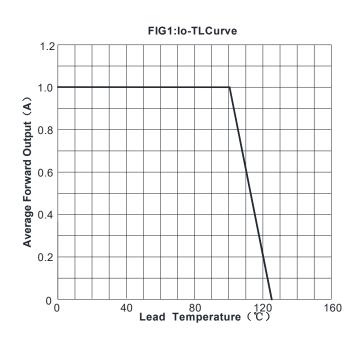


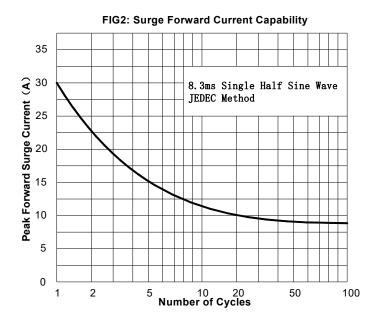


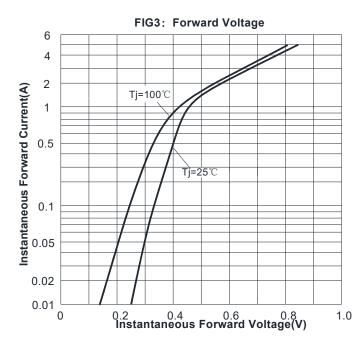
■Thermal Characteristics (Tj=25°C Unless otherwise specified)

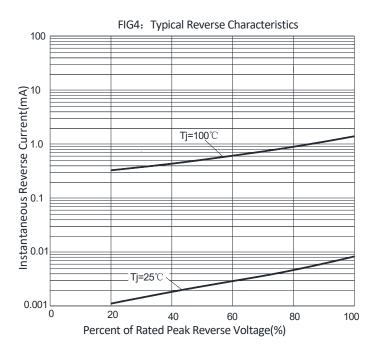
PARAMETER	SYMBOL	UNIT	FM14T
Thermal Resistance	R ₀ J-A	°C/W	260
	Røj-L		42

■ Characteristics (Typical)



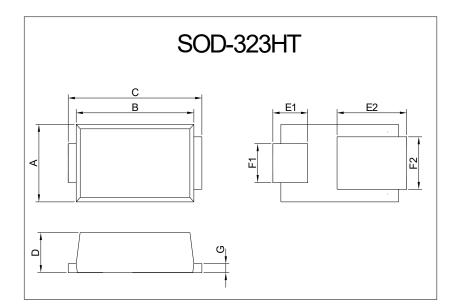






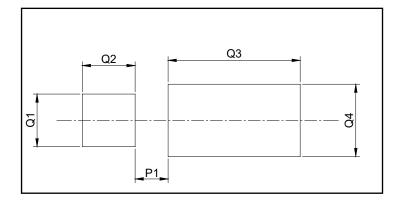


■ Outline Dimensions



SOD-323HT				
Dim	Min	Max		
Α	1.20	1.40		
В	2.10	2.30		
С	2.30	2.70		
D	0.63	0.73		
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-323HT		
Dim	Millimeters	
P1	0.5	
Q1	0.8	
Q2	0.8	
Q3	2	
Q4	1.1	



FM14T

Disclaimer

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