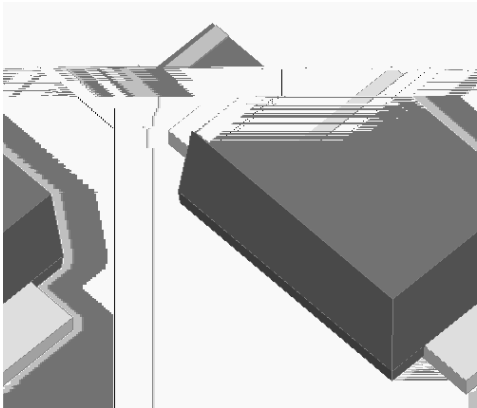


Surface Mount Schottky Rectifier

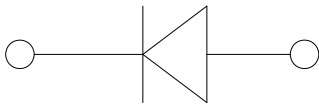


Features

- 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 diode / Cathode



Repetitive peak reverse voltage	VRRM	V	40
Average rectified output current @60Hz sine wave, Resistance load	IO	A	2.0
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, Tj=25	IFSM	A	35
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			70
Current squared time @1ms≤t≤8.3ms Tj =25 Rating of per diode	I2t	A2S	5.08
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	Cj	pF	67 T ' Ra e Tj † -55 ~+150

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FM24

■Electrical Characteristics $T_j=25$ Unless otherwise specified

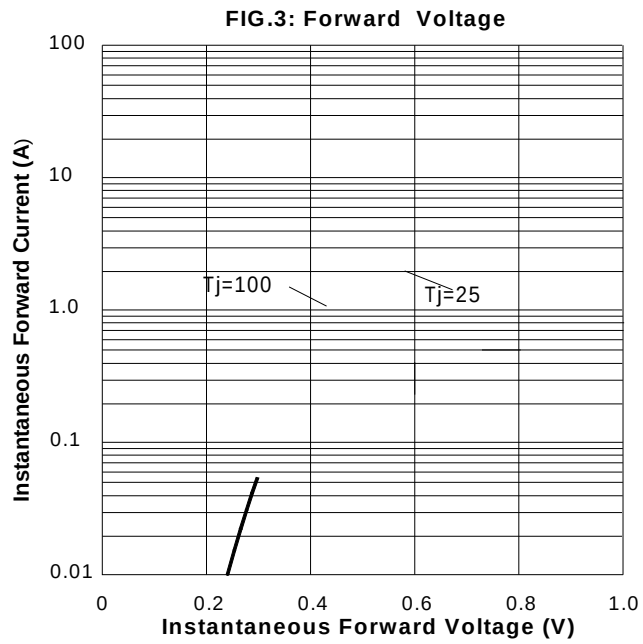
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	V_F	V	$I_{FM}=2.0A$ $T_j=25$	-	0.56	0.60
Maximum DC reverse current at rated DC blocking voltage per diode @ $V_{RM}=V_{RRM}$	I_{RRM1}	mA	$V_{RM}=V_{RRM}$ $T_j=25$	-	-	0.05
	I_{RRM2}		$V_{RM}=V_{RRM}$ $T_j=100$	-	-	10

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

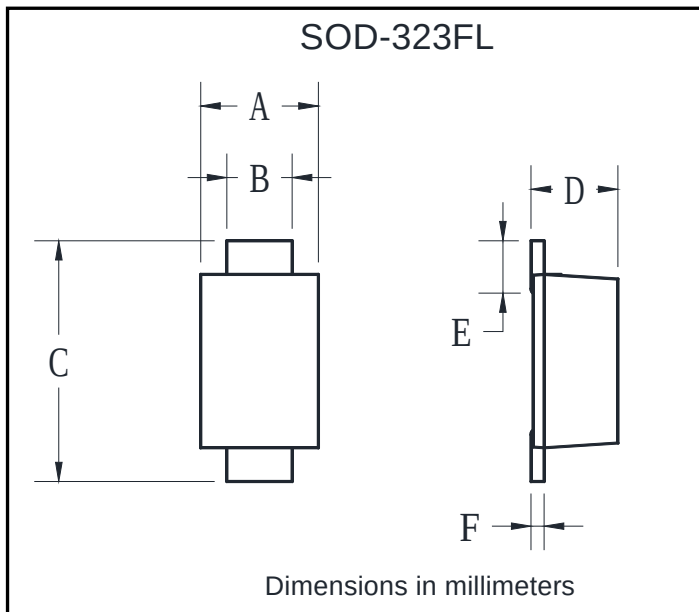
Note2:Pulse test:pulse width 40mS

■Thermal Characteristics $T_j=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	FM24
Thermal Resistance	$R_{\theta J-A}$	/W	90



■ Outline Dimensions



SOD-323FL		
Dim	Min	Max
A	1.05	1.45
B	0.90	1.15
C	2.30	2.70
D	0.80	1.20
E	0.25	0.70
F	0.05	0.25



■ Suggested pad layout

SOD-323FL	
Dim	Millimeters
P1	1.30
Q1	1.00
Q2	1.50



Disclaimer

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