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DSS22 THRU DSS210 SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 2.0 Ampere

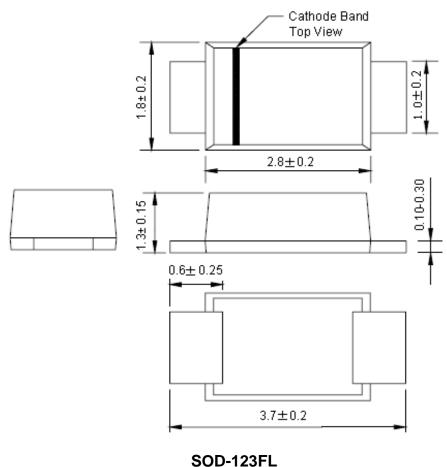
Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- · High forward surge current capability
- High temperature soldering guaranteed: 260 C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

- Case: JEDEC SOD-123FL molded plastic body
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.0007 ounce, 0.02 grams

Mechanical Dimensions (In Inches/mm)

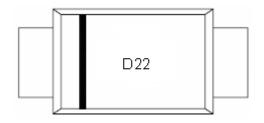


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Marking Diagram:



D22 = Marking code

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping			
DSS22 THRU DSS210	SOD-123FL	3000pcs / reel			

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



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Absolute Maximum Ratings and Electrical characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Characteristic	Symbol	DSS 22	DSS 23	DSS 24	DSS 25	DSS 26	DSS 27	DSS 28	DSS 29	DSS 210	Unit
Marking code		D22	D23	D24	D25	D26	D27	D28	D29	D210	
Peak Repetitive Reverse Voltage DC Blocking Voltage	$V_{RRM} \ V_{DC}$	20	30	40	50	60	70	80	90	100	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2.0						Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	40.0								Α	
Max Instantaneous Forward Voltage at 2A	V _F	0.55		0.70		0.85				V	
Peak Reverse Current @T _A = 25°C		0.5									
At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	10.0 5.0							mA		
Typical Junction Capacitance(Note 1)	CJ	220		180						pF	
Typical Thermal Resistance Junction to Ambient (Note 2)	$R_{\theta JA}$	180							°C/W		
Operating Temperature Range	TJ	-55 to +125		5 -55 to +150				°C			
Storage Temperature Range	T _{STG}	-55 to +150									

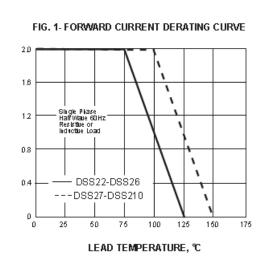
Note: 1. Measured at 1MHz and applied reverse voltage of 4V D.C

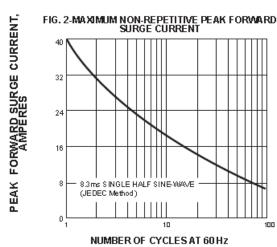
2. PCB mounted on 0.2 X 0.2" (5.0 X 5.0 mm) copper pad areas.

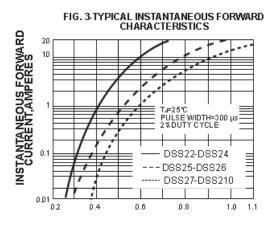


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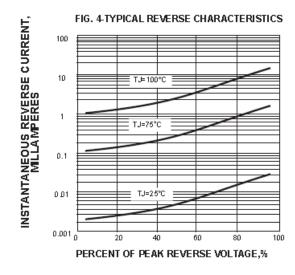


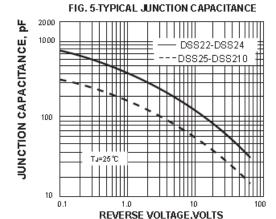






INSTANTANEOUS FORWARD VOLTAGE,





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