DSS24

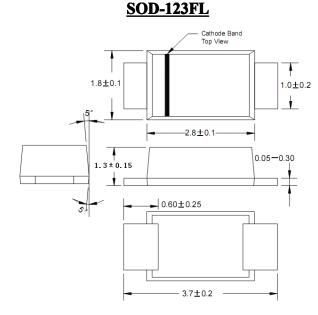
2.0AMPS. SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

- For surface mounted application
- · High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- · High surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals.

MECHANICAL DATA

- Case: JEDEC SOD-123FL,molded plastic over passivated chip
- Terminals:Solder Plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.006 ounces, 0.02 gram
- Mounting position: Any



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

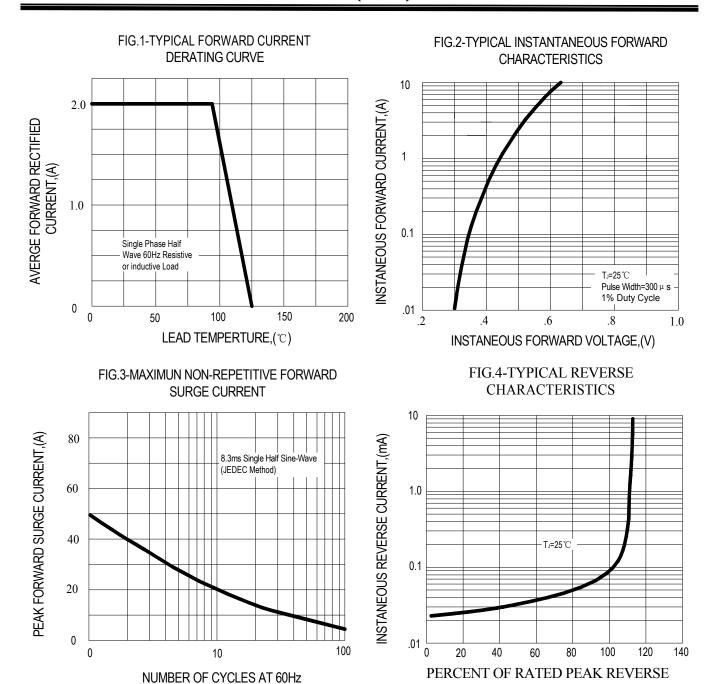
For capacitive load, derate current by 20%.

Type Number	SYM BOL	DSS24	units	
•	marking	D24		
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	40	V	
Maximum RMS Voltage	$V_{ m RMS}$	28	V	
Maximum DC Blocking Voltage	V _{DC}	40	V	
Maximum Average Forward rectified Current	<i>I</i>	2.0	A	
at T _L =90°C	I _{F(AV)}	2.0		
Peak Forward Surge Current 8.3ms single half				
sine-wave superimposed on rate load (JEDEC	I FSM	50.0	A	
method)				
Maximum Instantaneous forward Voltage at	$ u_{ m F}$	V F 0.55	V	
2.0 A DC	/F	0.55		
Maximum DC Reverse Current @T _A =25°C	7	0.5	mA	
at rated DC blocking voltage @T _A =100°C	I _R	40.0		
Typical Junction Capacitance (Note 1)		200	pF	
Typical thermal resistance (Note 2)	R _(JA)	180	°C /W	
Storage Temperature Range	T _{STG}	-55 to +150	°C	
Operation Temperature Range	$T_{ m J}$	-55 to +125	°C	

Note:

- 1. Measured at 1MHz and applied reverse voltage of 4.0 volts d.c.
- 2. Measured on P.C.Board with 0.2×0.2"(5.0×5.0mm)Copper Pad Areas

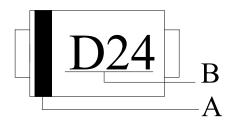
RATING AND CHARACTERISTIC CURVES (DSS24)



VOLTAGE,(%)

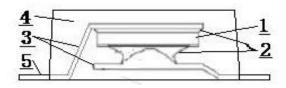
Marking, Structure and packaging illustration

1. Marking



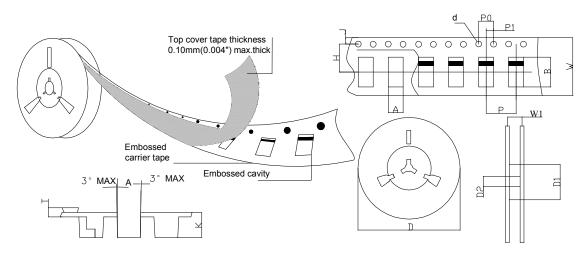
SYMBOL	Explanation
A	Color Band Denotes Cathode
В	Product Name

2. Structure



SYMBOL	Explanation
1	Dice
2	Solder
3	Lead Wire
4	Epoxy Compound
5	Plating

3. Packaging



SPECIFICATIONS mm(inch)		PACKAGE	SPECIFICATIONS mm(inch)		PACKAGE
ITEM	SYM BOL	SOD-123FL	ITEM	SYM BOL	SOD-123FL
Carrier width	A	2.1(0.083)Max	Carrier depth	K	1.60(0.063)Typ
Carrier length	В	4.0(0.157)Max	Punch hole pitch	P	4.00(0.157)Typ
Sprocket hole	d	ø1.55(0.061)Typ	Sprocket hole pitch	P0	4.00(0.157)Typ
Reel outer diameter	D	177.8(7)Typ	Embossment center	P1	2.00(0.079)Typ
Reel inner diameter	D1	50.0(1.969)Min	Overall tape thickness	Т	0.25(0.098)Typ
Feed hole diameter	D2	13.0(0.512)Typ	Tape width	W	8.15(0.321)Typ
Sprocket hole position	J	1.75(0.069)Typ	Reel width	W1	10.5(0.413)Min
Punch hole position	Н	3.50(0.138)Typ			