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DFLS240L

Surface Monut Schottky Barrier Rectifier

www.sot23.com.tw

Features

- Low power loss, high efficiency
- High surge current capability

Mechanical Data

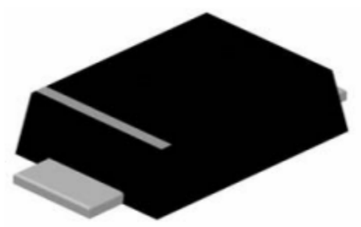
- Case : SOD-123FL Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0006 ounces, 0.017 grams
- Shipping Qty :3000pcs/7Inch Tape & Reel

Applications

- Low voltage rectification
- Reverse polarity protection
- Low power consumption applications

Dimensions and Pin Configuration

SOD123FL



Marking: BE

Maximum Ratings (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	Limits	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum Rms Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_R	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2	A
Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}	50	A
Typical Junction Capacitance Measured at 1 MHZ And Applied V_R = 4 V	C_J	100	pF
Typical Thermal Resistance (Note 1) (Note 2)	$R_{\theta JA}$ $R_{\theta JC}$	200 32	°C/W
Operating Junction Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Electrical Characteristics

PARAMETER	SYMBOL	TEST CONDITION		TYP.	MAX.	UNIT
Forward Voltage	V_F	I_F = 1A	T_J =25 °C	0.41	-	V
		I_F = 2A		-	0.5	
		I_F = 1A	T_J =125 °C	0.32	-	
		I_F = 2A		0.41	-	
Reverse Current(Note 3)	I_R	V_R = 10V	T_J=25°C	2	-	uA
		V_R = 20V		3	-	
		V_R = 30V		7	-	
		V_R = 40V		-	100	
		V_R = 20V	T_J =125 °C	3	-	mA
		V_R = 30V		5	-	
		V_R = 40V		6.5	-	

Rating and Characteristuc Curves

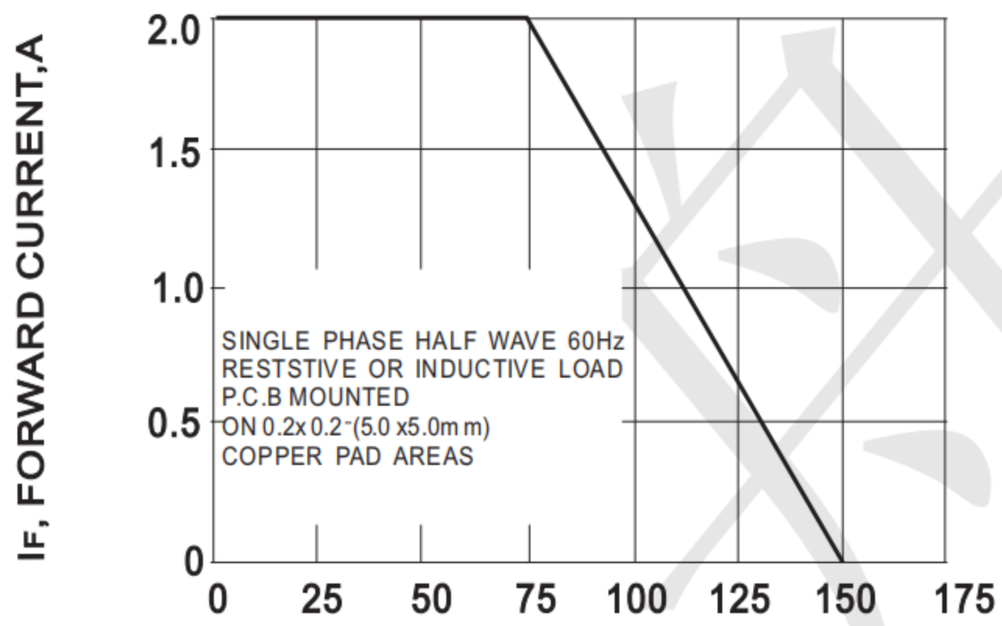


FIG. 1-FORWARD CURRENT DERATING CURVE

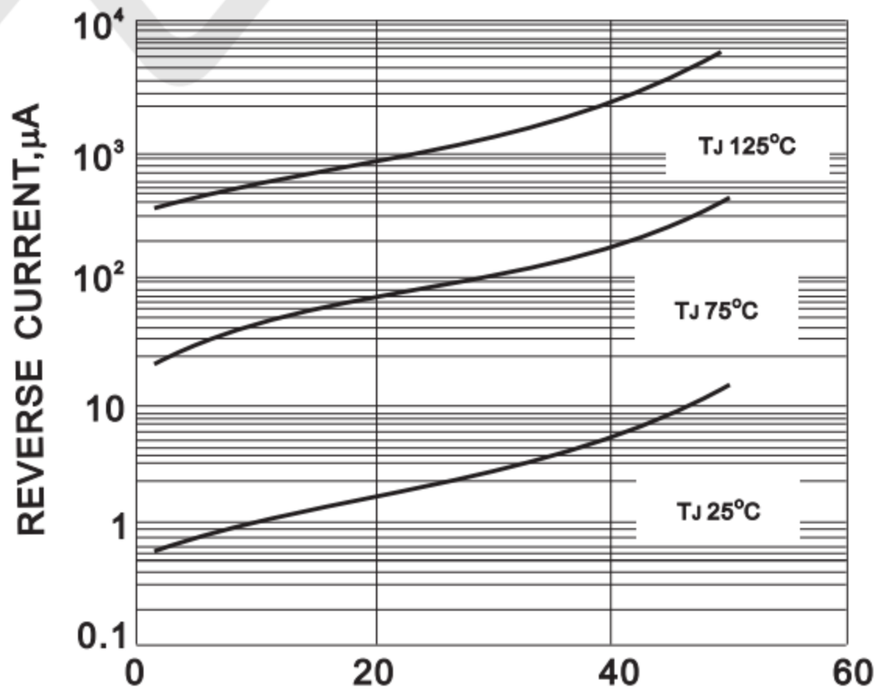


FIG. 2-TYPICAL REVERSE CHARACTERISTIC

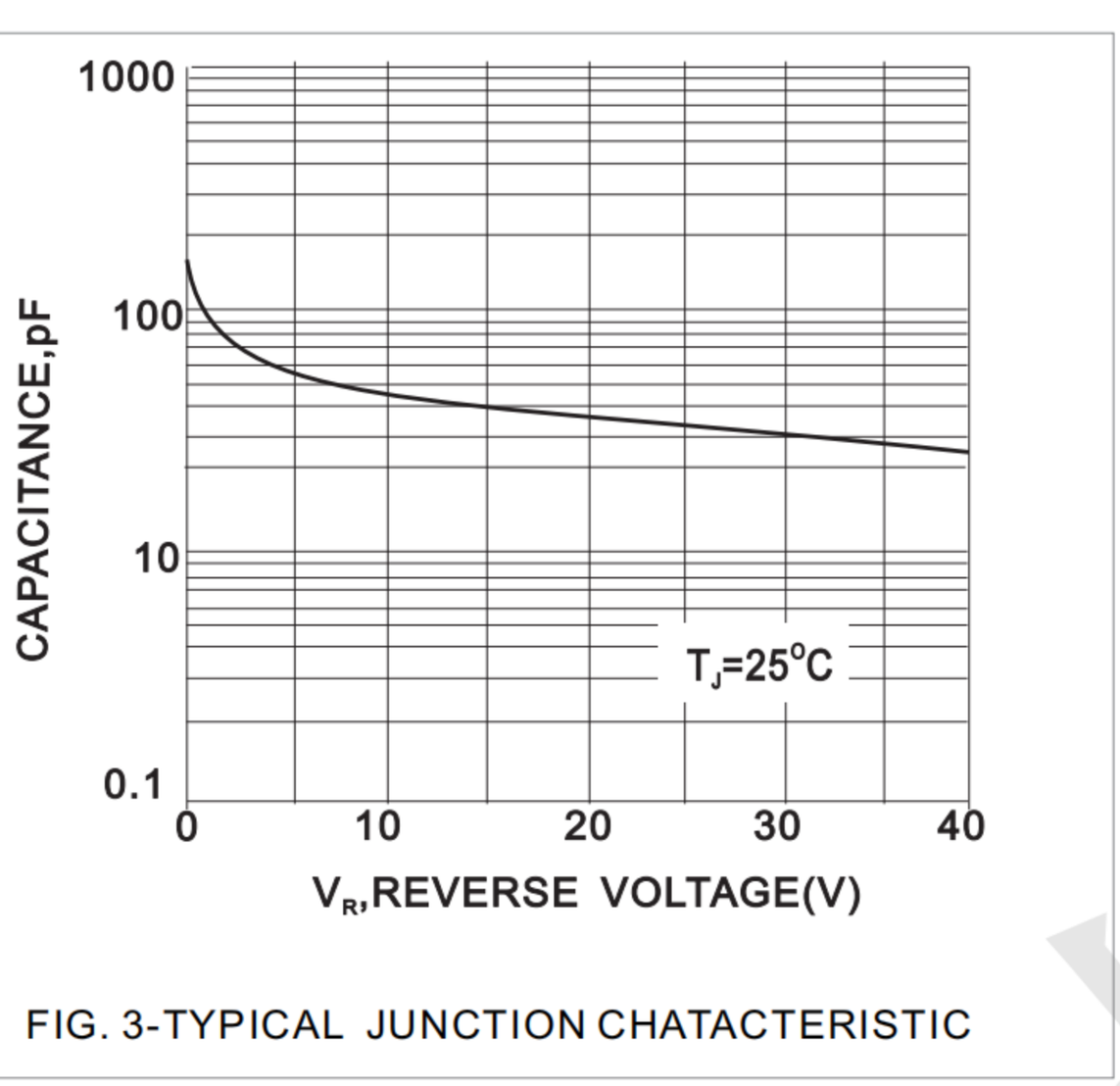


FIG. 3-TYPICAL JUNCTION CHATACTERISTIC

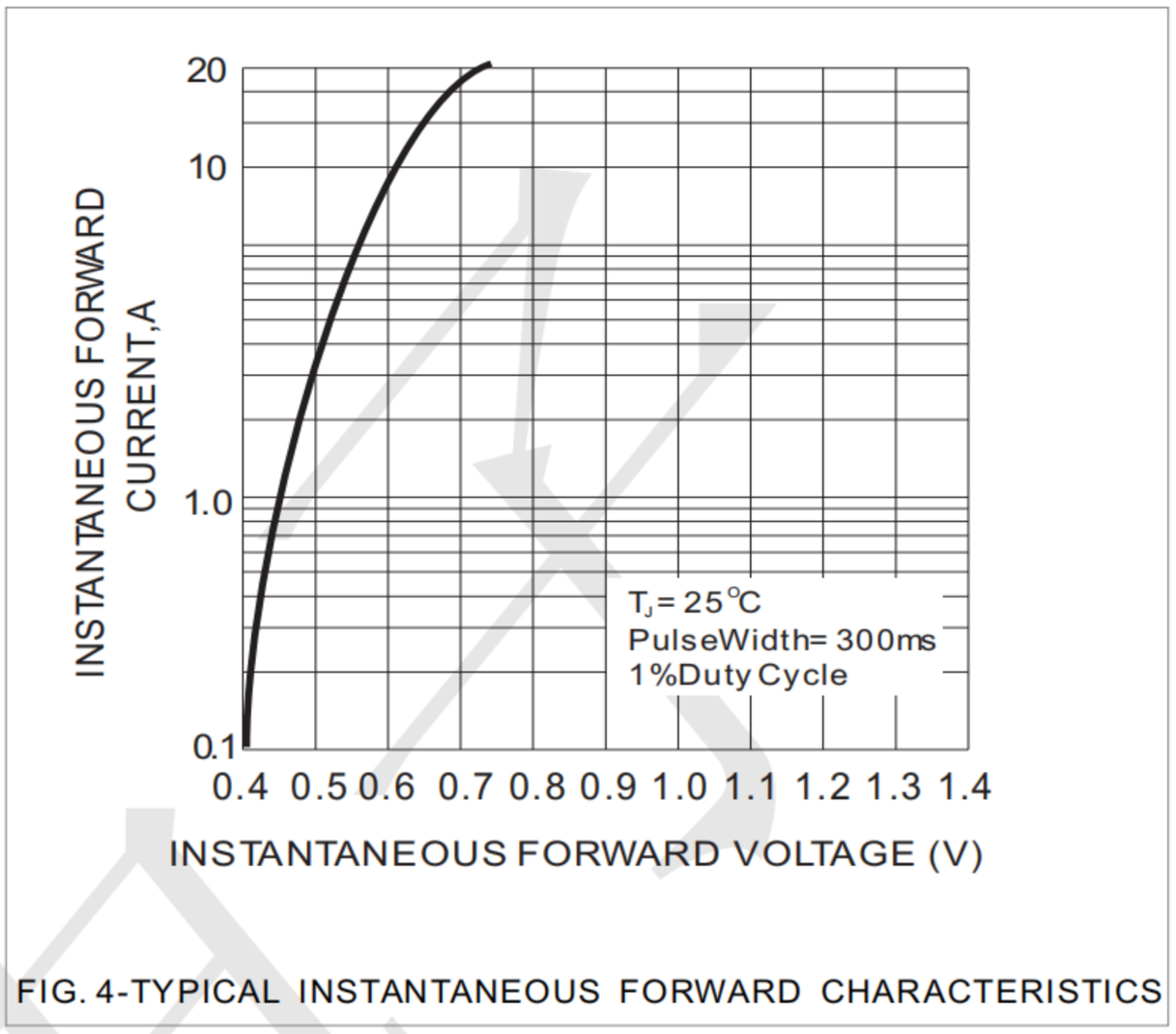


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

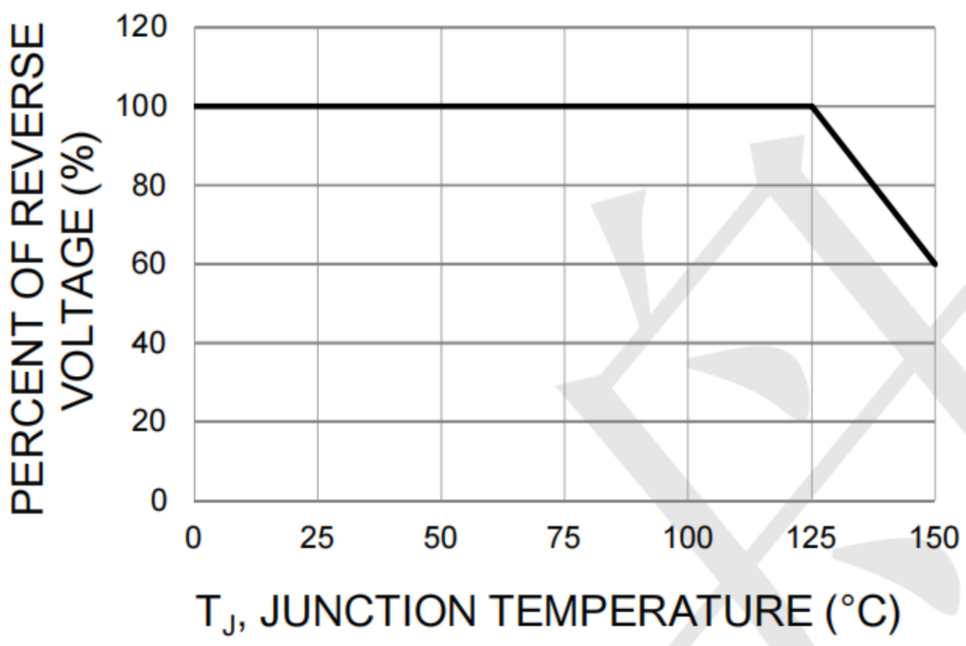
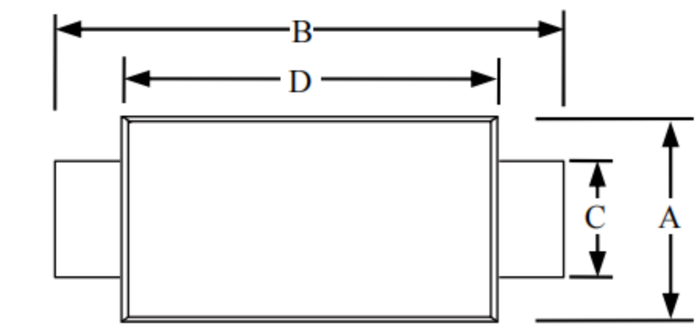
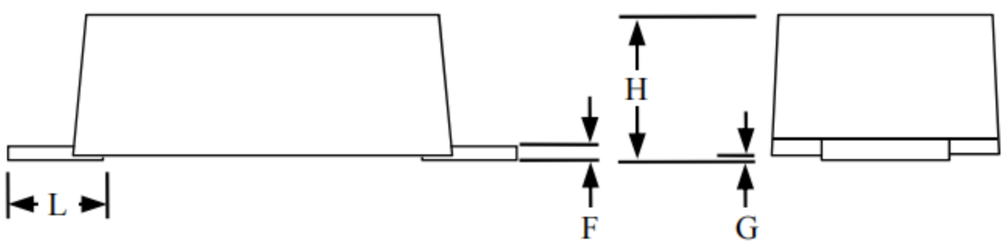


FIG. 5-OPERATING TEMPERATURE DERATING CURVE

Package Outline Dimensions: SOD123FL





SOD-123FL						
Dimension	Inches			Millimeters		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.059		0.079	1.5		2
B	0.134		0.154	3.4		3.9
C	0.028		0.047	0.7		1.2
D	0.098		0.114	2.5		2.9
F	0.002		0.01	0.05		0.26
G	-		0.004	-		0.1
H	0.037		0.053	0.95		1.35
L	0.014		0.035	0.35		0.9