



Description

P0080FB-MC is a type of semiconduct component. It is designed to protect baseband equipment from damaging overvoltage transients.

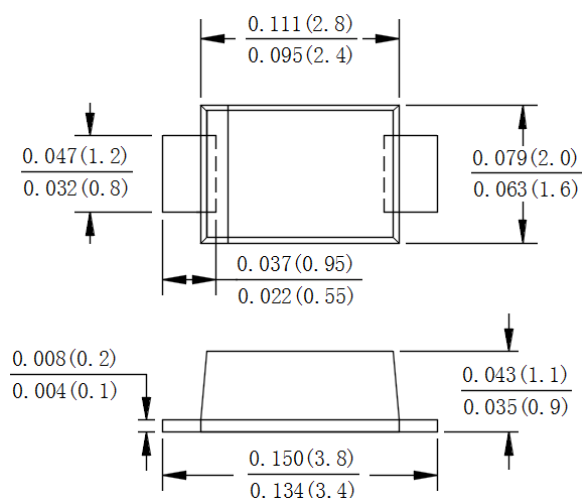
Features

- Cannot be damaged by voltage.
- Eliminate hysteresis and heat dissipation typically found with clamping devices Eliminate voltage overshoot caused by fast-rising transients.
- Will not fatigue.
- Have low capacitance, making them ideal for high-speed transmission equipment.
- Meets MSL level 1, per J-STD-020.

Symbol



SOD-123FL



Dimensions in inches and (millimeters)

Absolute Maximum Ratings

At TA=25°C, RH=45%-75%, unless otherwise noted.

Characteristic	Symbol	Value	Unit
Repetitive peak pulse current(10/700)	I _{pp}	4000	V
Operating Temperature Range,	T _j	-40 — +150	°C
Storage Temperature Range	T _{STG}	-60 — +150	°C

Electrical Characteristics (TA=25°C)

Characteristic	Symbol	Min	Max	Unit
Peak off-state voltage	V _{DRM}	6		V
Off-state current at V _{DRM} =6V	I _{DRM}		5	uA
Switching current	I _S		800	mA
Switching voltage at I _S =800mA	V _S		25	V
On-state current	I _T		2.2	A
On-state voltage at I _T =2.2A	V _T		4	V
Holding current	I _H	10		mA
Off-state capacitance	C _O		20	pF

Notes:

1. All measurements are made at an ambient temperature of 25°C. I_{PP} applies to -40°C through +85°C temperature range.
2. Off-state capacitance (C_O) is measured at 1 MHz with a 2 V bias and is typical value.



Typical Characteristics $T_a = 25$ unless otherwise specified

FIG.1: V—I Curve

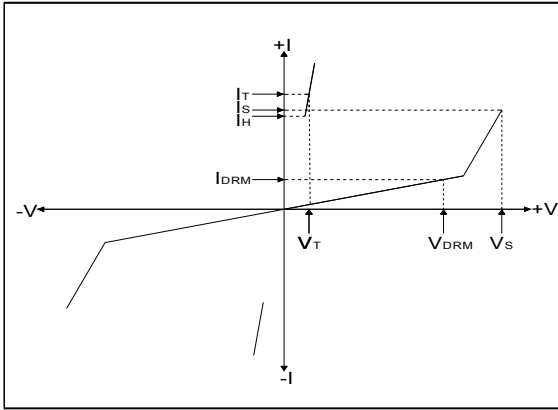


FIG.2: $t_r \times t_d$ pulse waveform

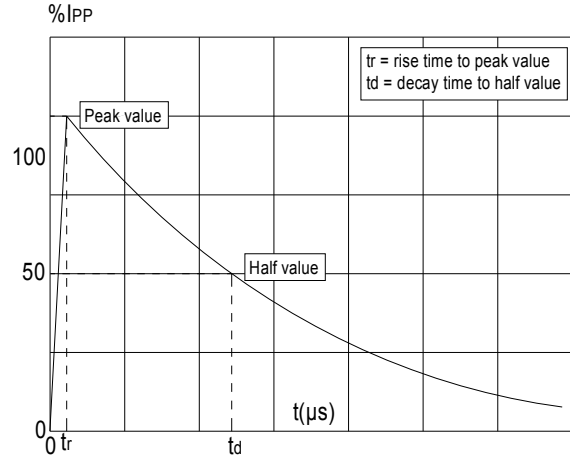


FIG.3: Normalized V_s change vs. junction temperature

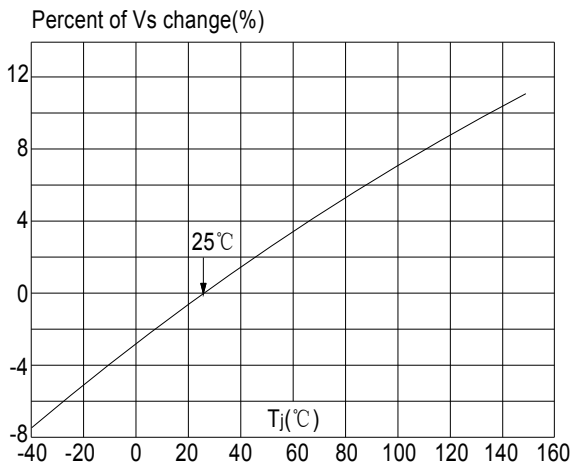
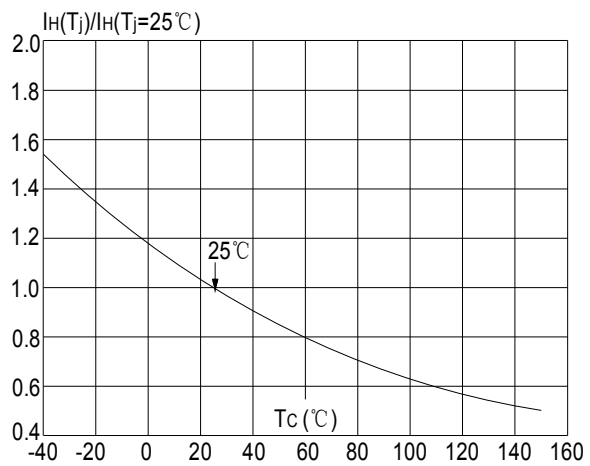


FIG.4: Normalized DC holding current vs. case temperature





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