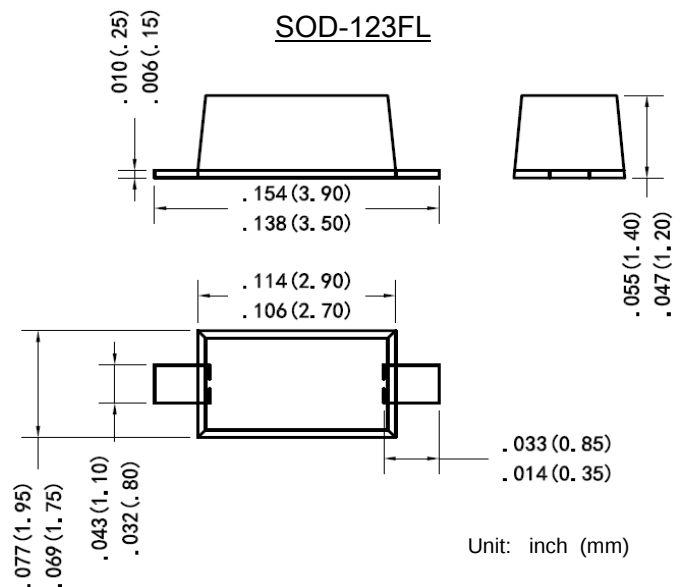


Features

- Low reverse leakage
- High reliability
- High temperature soldering guaranteed:
260°C/10seconds on teminals
- Lead and body according with RoHS standard
- Bidirectional crowbar protection
- High forward surge current capability
- Will not fatigueThe plastic package carries Underwriters
Laboratory, Flammability Classification 94V-0
- Eliminate voltage overshoot caused by fast-rising transients
- Cannot be damaged by voltage

Mechanical Data

- Case: JEDEC SOD-123FL Molded plastic
- Lead: Pure tin plated, lead free
- Mounting Position : Any



Electrical Parameters

Part Number	Marking	V _{DRM} (V)	V _{BO} (V)			V _T (V)	I _T (A)	I _{BO} (uA)	I _{DRM} (uA)	I _H (mA)
			Min.	Typ.	Max.					
K090SD	K090	70	79	93	97	4.0	1.0	15	1.0	50
K105SD	K105	90	95	105	110	4.0	1.0	15	1.0	50
K110SD	K110	95	104	110	118	4.0	1.0	15	1.0	50
K120SD	K120	100	110	122	125	4.0	1.0	15	1.0	50
K130SD	K130	110	120	135	138	4.0	1.0	15	1.0	50
K140SD	K140	120	130	140	146	4.0	1.0	15	1.0	50
K150SD	K150	125	135	155	160	4.0	1.0	15	1.0	50
K160SD	K160	130	140	163	170	4.0	1.0	15	1.0	50
K180SD	K180	180	165	180	195	4.0	1.0	15	1.0	50
K200SD	K200	180	190	205	215	4.0	1.0	15	1.0	50
K220SD	K220	190	205	220	230	4.0	1.0	15	1.0	50
K240SD	K240	200	220	240	250	4.0	1.0	15	1.0	50
K260SD	K260	220	240	260	280	4.0	1.0	15	1.0	50

Note: 1) All measurements are made at an ambient temperature of 25°C.

Thermal Considerations

Package	Symbol	Parameter	Value	Unit
SOD-123FL	T _J	Operating Junction Temperature	125	°C
	T _S	Storage Temperature Range	-40 to +125	°C
	R _{θJA}	Junction to Ambient on printed circuit	180	°C/W

Characteristics Curves

Figure 1. V-I Characteristics

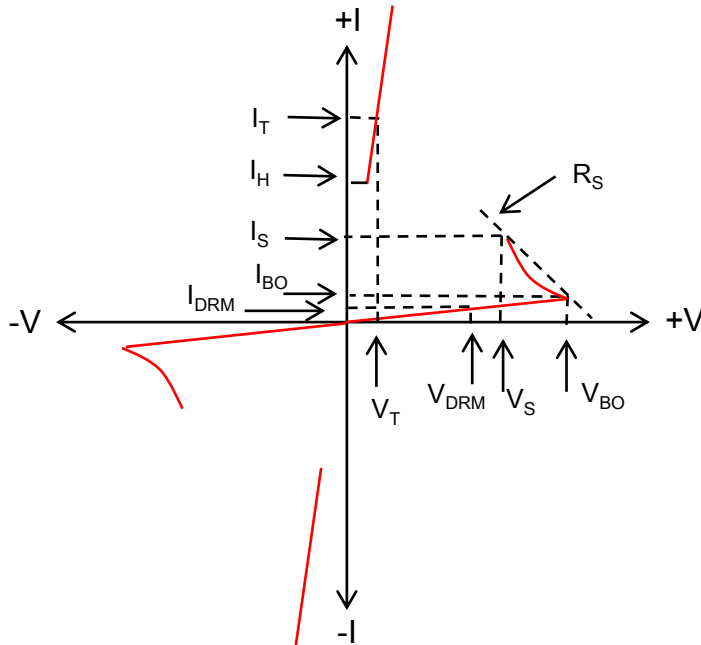


Figure 2. $t_r \times t_d$ Pulse Wave-form

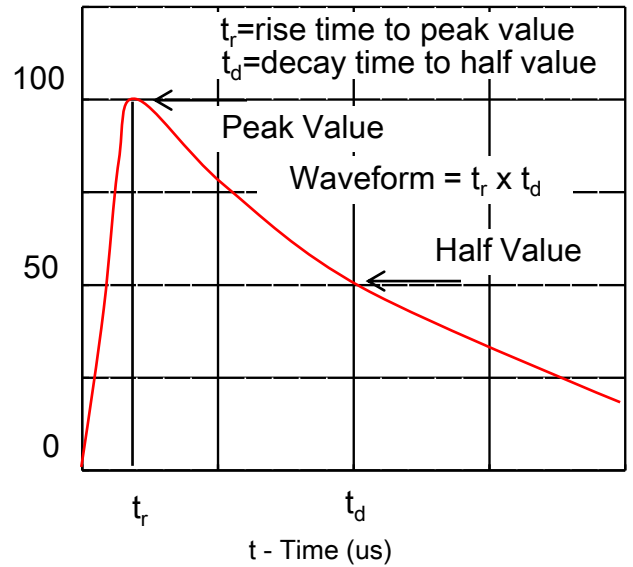


Figure 3. Normalized V_S Change versus Junction Temperature

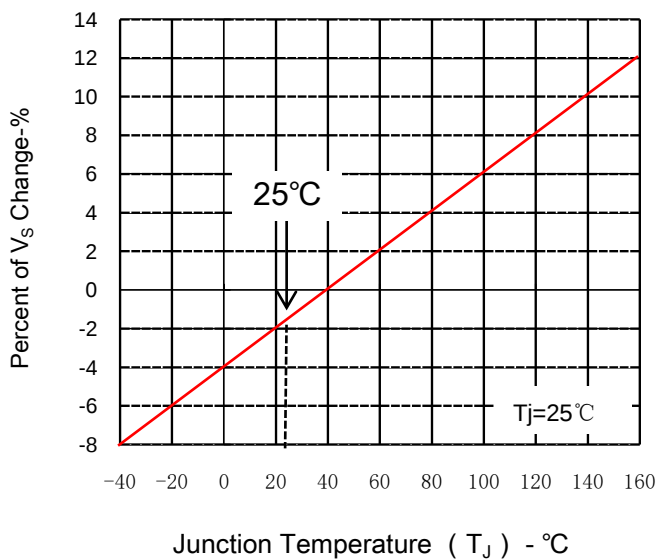


Figure 4. Normalized DC Holding Current versus Case Temperature

