

SOD-123FL TVS 瞬态电压抑制二极管

■Features 特点

ESD 30KV Air,30KV contact 静电释放电压 30KV 空气放电与 30KV 接触放电

Solid-state silicon avalanche technology 固态硅雪崩技术

Low leakage current 低漏电流

■Applications 应用

Personal digital assistants (PDA)个人数码助手

Handhelds and notebooks 手持式笔记本

Portable devices 桌面设备

Digital cameras 数码相机

HF **RoHS**



■Internal Schematic Diagram 内部结构



■Absolute Maximum Ratings 最大额定值

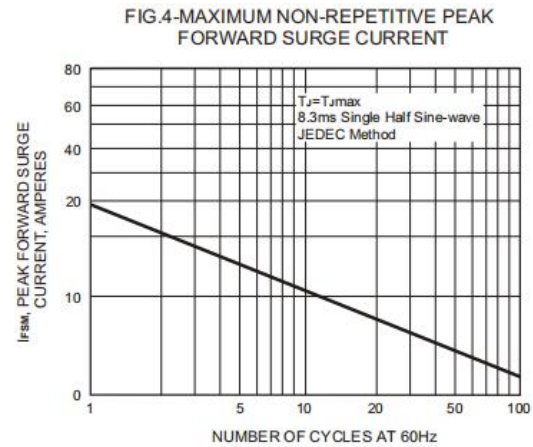
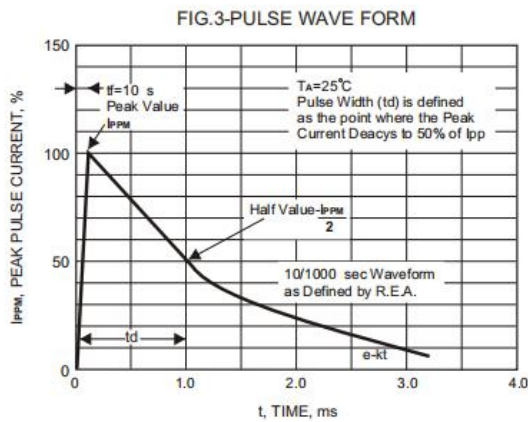
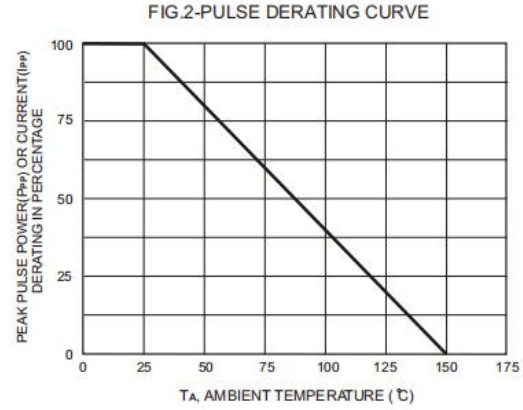
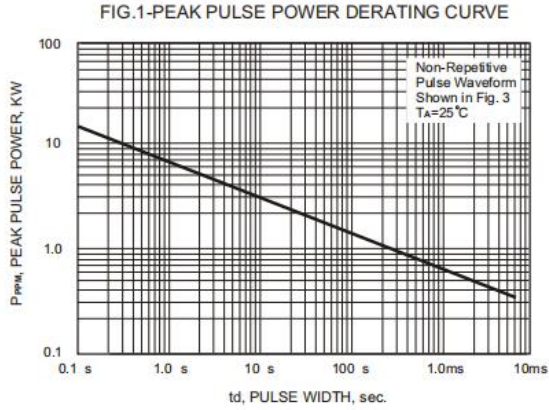
Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
Peak Power Dissipation 峰值功率	P_{PK}	200	W
Reverse Stand-off Work Voltage 反向工作电压	V_{RWM}	5.0~440	V
Peak Pulse Current 峰值脉冲电流	I_{PP}	21.7~0.3	A
Thermal Resistance Junction-Ambient 结到环境热阻	$R_{\theta JA}$	125	°C/W
Junction/Storage Temperature 结温/储存温度	T_J, T_{stg}	-55~150	°C

■Electrical Characteristics 电特性

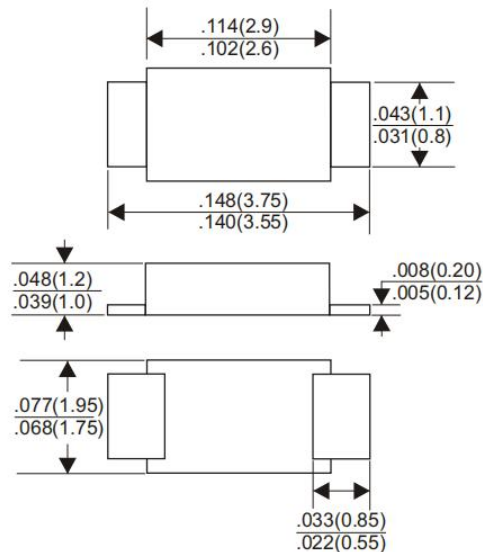
($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

Type Number	V _{RWM} (V)	V _{BR} (V)@I _T		I _T (mA)	V _C (V) @I _{PP}	I _{PP} (A)	I _R (μA) @V _{RWM}	Marking	
		Min.	Max.					A(UNI)	CA(BI)
SMF5.0(C)A-6AF	5.0	6.40	7.25	10	9.2	21.7	200	AE	CAE
SMF6.0(C)A-6AF	6.0	6.67	7.67	10	10.3	19.4	200	AG	CAG
SMF6.5(C)A-6AF	6.5	7.22	8.30	10	11.2	17.9	150	AK	CAK
SMF7.0(C)A-6AF	7.0	7.78	8.95	10	12.0	16.7	75	AM	CAM
SMF7.5(C)A-6AF	7.5	8.33	9.58	1	12.9	15.5	50	AP	CAP
SMF8.0(C)A-6AF	8.0	8.89	10.23	1	13.6	14.7	25	AR	CAR
SMF8.5(C)A-6AF	8.5	9.44	10.82	1	14.4	13.9	20	AT	CAT
SMF9.0(C)A-6AF	9.0	10.0	11.50	1	15.4	13.0	10	AV	CAV
SMF10(C)A-6AF	10	11.1	12.80	1	17.0	11.8	5	AX	CAX
SMF11(C)A-6AF	11	12.2	14.00	1	18.2	11.0	1	AZ	CAZ
SMF12(C)A-6AF	12	13.3	15.30	1	19.9	10.1	1	BE	CBE
SMF13(C)A-6AF	13	14.4	15.60	1	21.5	9.3	1	BG	CBG
SMF14(C)A-6AF	14	15.6	17.90	1	23.2	8.62	1	BK	CBK
SMF15(C)A-6AF	15	16.7	19.20	1	24.4	8.2	1	BM	CBM
SMF16(C)A-6AF	16	17.8	20.50	1	26.0	7.69	1	BP	CBP
SMF17(C)A-6AF	17	18.9	21.70	1	27.6	7.25	1	BR	CBR
SMF18(C)A-6AF	18	20.0	23.30	1	29.2	6.85	1	BT	CBT
SMF20(C)A-6AF	20	22.2	25.50	1	32.4	6.17	1	BV	CBV
SMF22(C)A-6AF	22	24.4	28.00	1	35.5	5.63	1	BX	CBX
SMF24(C)A-6AF	24	26.7	30.70	1	38.9	5.14	1	BZ	CBZ
SMF26(C)A-6AF	26	28.9	33.20	1	42.1	4.75	1	CE	CCE
SMF28(C)A-6AF	28	31.1	35.80	1	45.4	4.41	1	CG	CCG
SMF30(C)A-6AF	30	33.3	38.30	1	48.4	4.13	1	CK	CCK
SMF33(C)A-6AF	33	36.7	42.20	1	53.3	3.75	1	CM	CCM
SMF36(C)A-6AF	36	40.0	46.00	1	58.1	3.44	1	CP	CCP
SMF40(C)A-6AF	40	44.4	51.10	1	64.5	3.1	1	CR	CCR
SMF43(C)A-6AF	43	47.8	54.90	1	69.4	2.88	1	CT	CCT
SMF45(C)A-6AF	45	50.0	57.50	1	72.7	2.75	1	CV	CCV
SMF48(C)A-6AF	48	53.3	61.30	1	77.4	2.58	1	CX	CCX
SMF51(C)A-6AF	51	56.7	65.20	1	82.4	2.43	1	CZ	CCZ
SMF54(C)A-6AF	54	60.0	69.00	1	87.1	2.3	1	DE	CDE
SMF58(C)A-6AF	58	64.4	74.10	1	93.6	2.14	1	DG	CDG
SMF60(C)A-6AF	60	66.7	76.70	1	96.8	2.07	1	DK	CDK
SMF64(C)A-6AF	64	71.1	81.80	1	103	1.94	1	DM	CDM
SMF70(C)A-6AF	70	77.8	89.50	1	113	1.77	1	DP	CDP
SMF75(C)A-6AF	75	83.3	95.80	1	121	1.65	1	DR	CDR
SMF78(C)A-6AF	78	86.7	99.70	1	126	1.59	1	DT	CDT
SMF85(C)A-6AF	85	94.4	108.2	1	137	1.46	1	DV	CDV
SMF90(C)A-6AF	90	100	115.5	1	146	1.37	1	DX	CDX
SMF100(C)A-6AF	100	111	128.0	1	162	1.23	1	DZ	CDZ
SMF110(C)A-6AF	110	122	140.5	1	177	1.13	1	EE	CEE
SMF120(C)A-6AF	120	133	153.0	1	193	1.04	1	EG	CEG
SMF130(C)A-6AF	130	144	165.5	1	209	0.96	1	EK	CEK
SMF150(C)A-6AF	150	167	192.5	1	243	0.82	1	EM	CEM
SMF160(C)A-6AF	160	178	205.0	1	259	0.77	1	EP	CEP
SMF170(C)A-6AF	170	189	217.5	1	275	0.73	1	ER	CER
SMF180(C)A-6AF	180	201	222.0	1	328	0.91	5	ET	CET
SMF200(C)A-6AF	200	224	247.0	1	332	0.89	5	EX	CEX
SMF220(C)A-6AF	220	246	272.0	1	352	0.8	5	E22	CE22
SMF250(C)A-6AF	250	279	309.0	1	405	0.75	5	E25	CE25
SMF300(C)A-6AF	300	335	371.0	1	486	0.7	5	E30	CE30
SMF350(C)A-6AF	350	391	432.0	1	567	0.7	5	E35	CE35
SMF400(C)A-6AF	400	447	494.0	1	648	0.6	5	E40	CE40
SMF440(C)A-6AF	440	492	543.0	1	713	0.3	5	E44	CE44

■ Typical Characteristic Curve 典型特性曲线



■ Dimension 外形封装尺寸



Dimensions in inches and (millimeters)