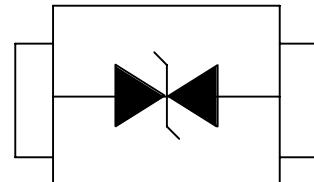


RoHS Device Halogen Free

Features

- IEC61000-4-2 ESD 30KV Air, 30KV contact compliance
- SOD-323 surface mount package
- Protects bi-directional line
- Working voltage: 36V
- Low leakage current
- Low clamping voltage
- Solid-state silicon avalanche technology
- Solder reflow temperature: Pure Tin-Sn, 260~270°C
- Flammability rating UL 94V-0
- Meets MSL level 1, per J-STD-020

SOD-323



Pin Configuration

Applications

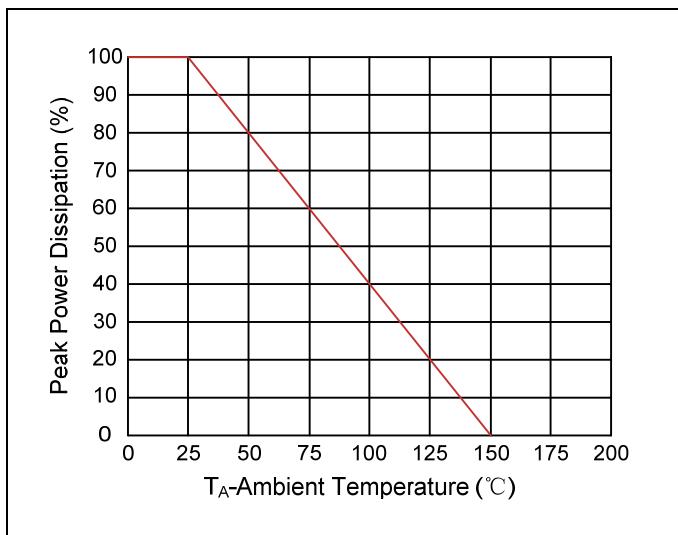
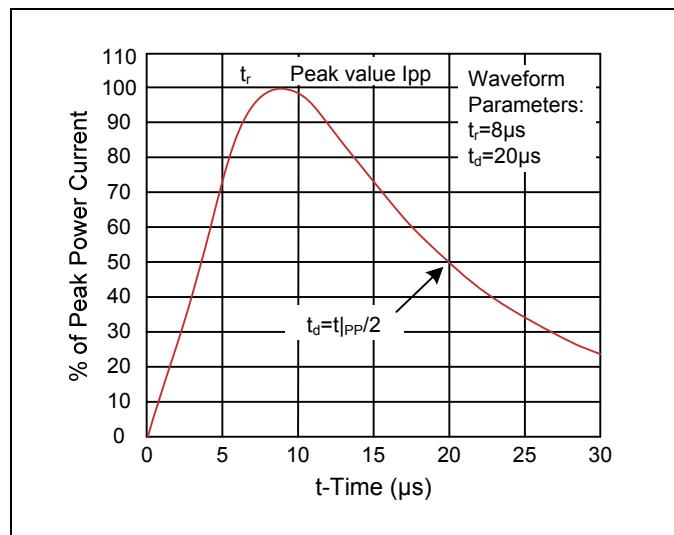
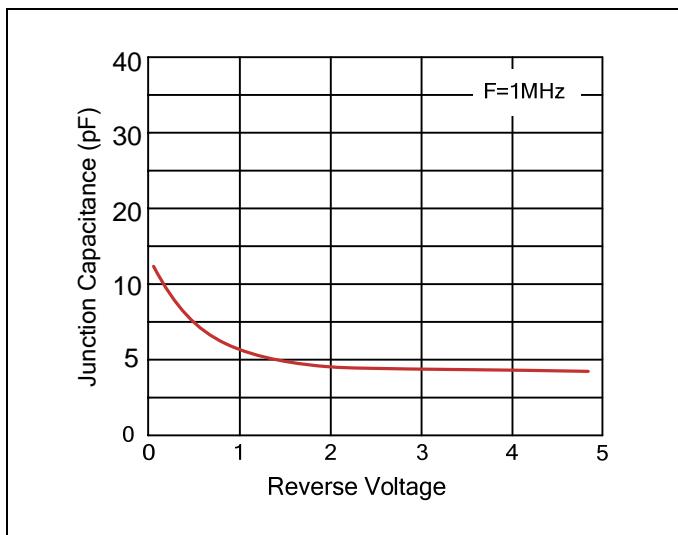
- Cellular handsets & Accessories
- Cordless phones
- Personal digital assistants (PDAs)
- Notebooks & Handhelds
- Portable instrumentation
- Digital cameras
- Peripherals
- MP3 players

Maximum Ratings

Rating	Symbol	Value	Unit
Peak pulse power ($tp=8/20\mu s$ waveform)	P_{PP}	300	W
Peak pulse current ($tp=8/20\mu s$ waveform)	I_{PP}	4	A
ESD voltage (Contact discharge)	V_{ESD}	± 30	kV
ESD voltage (Air discharge)			
Storage & operating temperature range	T_{STG}, T_J	-55~+150	°C

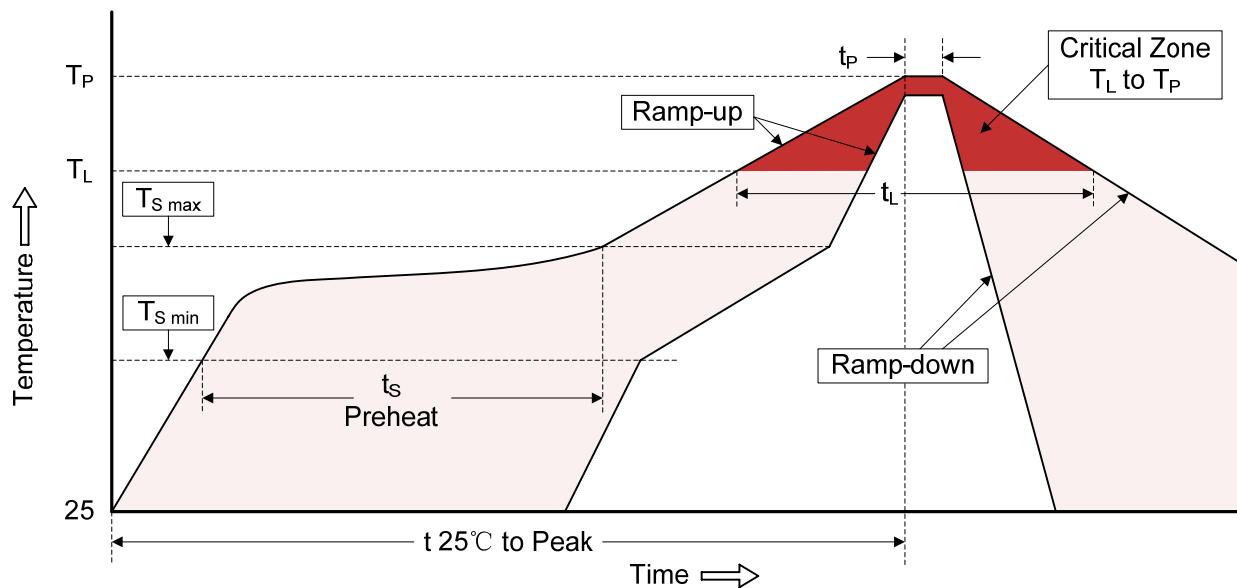
Electrical Characteristics ($T_J=25^\circ\text{C}$)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Reverse stand-off voltage	V_{RWM}				36	V
Reverse breakdown voltage	V_{BR}	$I_{BR}=1\text{mA}$	40			V
Reverse leakage current	I_R	$V_R=36\text{V}$			0.5	μA
Clamping voltage ($t_p=8/20\mu\text{s}$)	V_C	$I_{PP}=4\text{A}$		60		V
Off state junction capacitance	C_J	$0\text{Vdc}, f=1\text{MHz}$		10		pF

Typical Characteristics Curves

Figure 1. Power Derating Curve

Figure 2. Pulse Waveform

Figure 3. Capacitance vs. Reverse Voltage

Recommended Soldering Conditions

Reflow Soldering



Recommended Condition

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3°C/second max.
Preheat	
-Temperature Min ($T_{S\ min}$)	150°C
-Temperature Max ($T_{S\ max}$)	200°C
-Time (min to max) (ts)	60-180 seconds
$T_{S\ max}$ to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
-Temperature (T_L)	217°C
-Time (t_L)	60-150 seconds
Peak Temperature (T_P)	260°C
Time within 5°C of actual Peak Temperature (t_P)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

Dimensions (SOD-323)

Symbol	Dimension			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	0.80	1.10	0.031	0.043
B	-	0.10	-	0.004
C	0.20	-	0.008	-
D	0.11	0.20	0.004	0.008
E	1.15	1.35	0.045	0.053
F	-	0.35	-	0.014
G	1.60	1.80	0.063	0.071
H	2.40	2.60	0.094	0.102

Recommended Soldering Pad Layout

Packaging

Tape	Symbol	Dimension (mm)
	W	8.00±0.30
	P0	4.00±0.10
	P1	4.00±0.10
	P2	2.00±0.10
	D0	Φ1.55±0.10
	D1	Φ1.00±0.05
	E	1.75±0.10
	F	3.50±0.10
	A	1.48±0.10
	A0	0.80±0.10
	B	3.00±0.10
	B0	1.80±0.10
	K	1.05±0.10
	t	0.25±0.05
Reel	D	Φ178.0±2.0
	D2	Φ13.0
	W1	9.5
	Quantity: 3000PCS	

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