

# ESD Suppressor

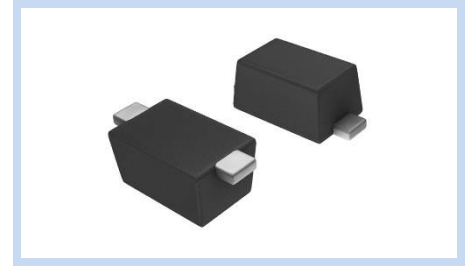
## 24V 350W SOD-323F

MEP241B350S323F

MERITEK

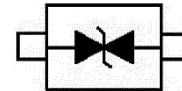
### FEATURE

- IEC61000-4-2 ESD 30KV (Air), 30KV (Contact)
- Peak Power Dissipation of 350W (8/20 $\mu$ S)
- ESD Protection for Bi-Directional Channel
- Low Clamping Voltage and Low Leakage Current
- Transient Protects for Power Line or Data I/O Port
- Application: Microprocessor Based Equipments, Peripherals, Portable Instrumentation, Personal Digital Assistants



### MECHANICAL DATA

- Case: Molded Plastic, SOD-323F Package
- Terminals : Solderable per MIL-STD-750, Method 2026



### ABSOLUTE MAXIMUM RATINGS

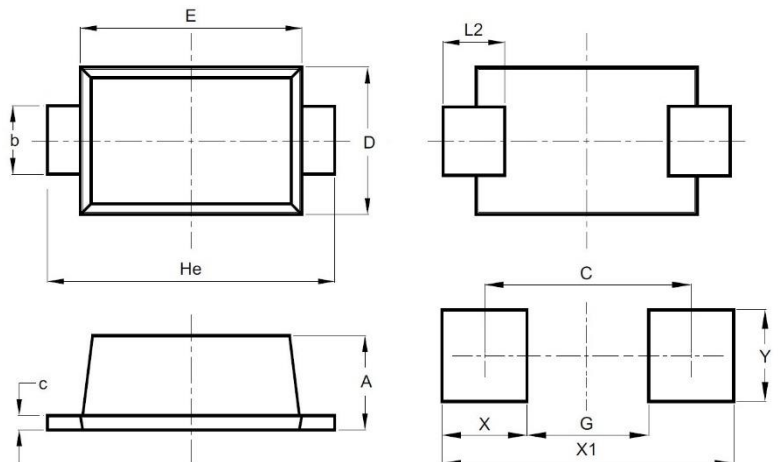
Parameter	Symbol	Value	Unit
Peak Pulse Power (tp = 8/20 $\mu$ s wavefrom)	P <sub>PP</sub>	350	W
ESD Discharge (IEC61000-4-2)	Air	$\pm$ 30	KV
	Contact	$\pm$ 30	
Peak Pulse Current (tp = 8/20 $\mu$ s wavefrom)	I <sub>PP</sub>	8	A
Junction Temperature Range	T <sub>J</sub>	-55 to +125	$^{\circ}$ C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	$^{\circ}$ C

### ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Symbol	Min	Typ.	Max	Units
Reverse Stand-off Voltage	--	V <sub>RWM</sub>	-	-	24	V
Reverse Breakdown Voltage	I <sub>R</sub> =1mA	V <sub>(BR)</sub>	26.7	-	-	V
Reverse Leakage Current	V <sub>RWN</sub> =24V	I <sub>R</sub>	-	-	1	$\mu$ A
Clamping Voltage (tp=8/20 $\mu$ s)	I <sub>PP</sub> =5A	V <sub>C</sub>	-	-	42	V
	I <sub>PP</sub> =8A		-	-	48	
Off State Junction Capacitance	V <sub>dc</sub> =0, f=1MHz	C <sub>J</sub>	-	-	50	pF

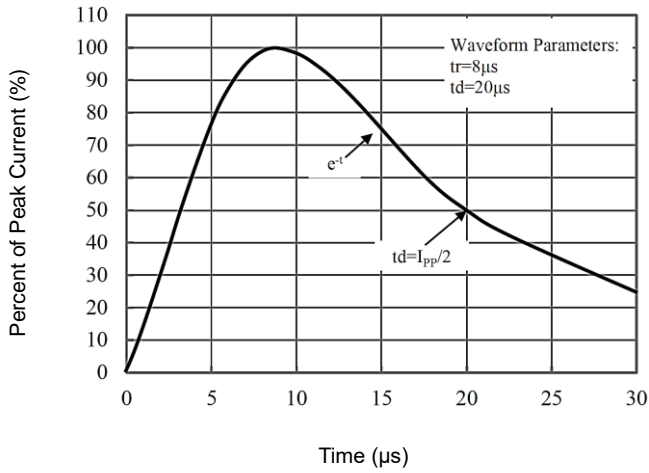
### DIMENSIONS

Item	Min (mm)	Max (mm)
A	0.80	1.10
b	0.25	0.40
c	0.10	0.15
D	1.15	1.35
E	1.60	1.80
He	2.30	2.80
C	2.10	
G	1.30	
X	0.80	
X1	2.90	
Y	0.90	

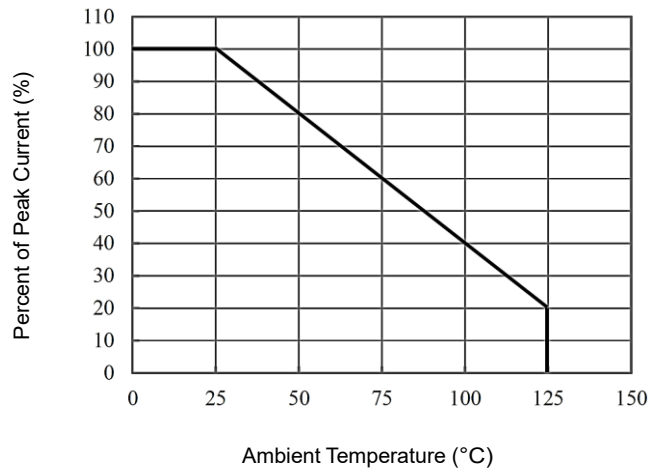


**CHARACTERISTIC CURVES**

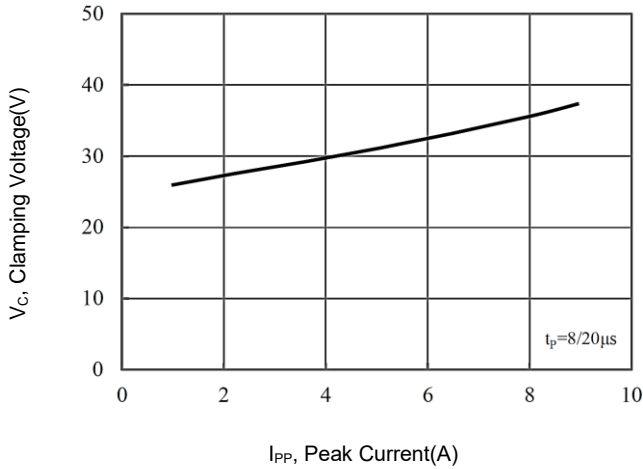
**Pulse Wave Form**



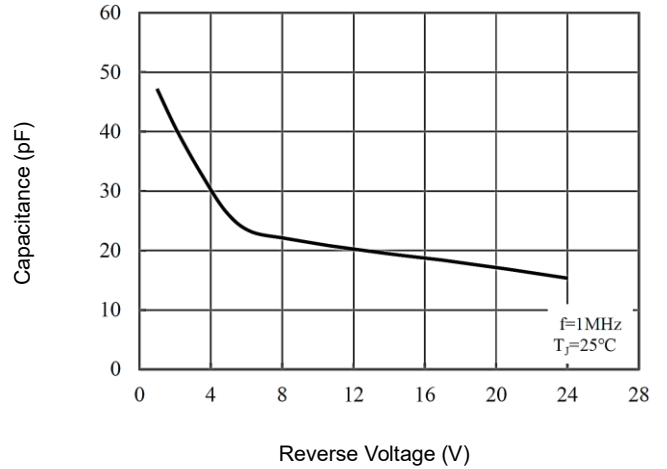
**Power Derating Curve**



**Typical Peak Clamping Voltage**



**Junction Capacitance vs Reverse Voltage**



**TLP Characteristic**

