

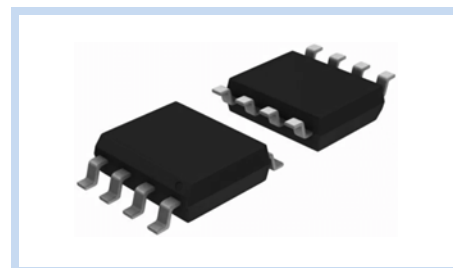
# ESD Suppressor 6V 3-Bidirectional SOIC-08

ME63BSO850

MERITEK

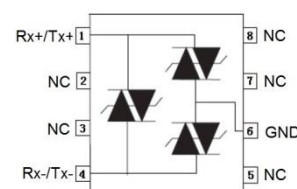
## FEATURE

- IEC 61000-4-2 ESD:  $\pm 30\text{KV}$  (Air)  $\pm 30\text{KV}$  (Contact)
- ESD Protection for three Bidirectional Channels
- Low Voltage Device



## APPLICATION

- XDCL Transmission Equipment
- Data Cable
- T1/E1 Transmission Protection
- Ethernet Transmission Protection



## MAXIMUM RATINGS AND CHARACTERISTICS

Parameter	Symbol	Value	Unit
ESD Voltage (Contact discharge)	$V_{ESD}$	$\pm 30$	KV
ESD Voltage (Air discharge)		$\pm 30$	
Peak Pulse Voltage (10/1000 $\mu\text{s}$ )	$V_{PP}$	3000	V
Peak Pulse Current (10/1000 $\mu\text{s}$ )	$I_{PP}$	45	A
Operating Temperature Range	$T_J$	-40~+125	$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-40~+150	$^{\circ}\text{C}$
Junction to Ambient on Printed Circuit	$R_{\theta JA}$	170	$^{\circ}\text{C/W}$

## ELECTRICAL CHARACTERISTICS

Parameter	Condition	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	--	$V_{RWM}$	--	--	6	V
Breakover Voltage	$I_{PT}=1000\text{V}/\mu\text{s}$	$V_{BO}$	--	--	15	V
On-State Voltage	$I_T=2.2\text{A}$	$V_T$	--	--	4	V
Reverse Leakage Current	$V_R=6\text{V}$	$I_R$	--	--	5	$\mu\text{A}$
Holding Current	10A, 10/1000 $\mu\text{s}$	$I_H$	--	10	--	mA
Off State Junction Capacitance	$V_{dc}=1, f=1\text{MHz}, 2\text{VBias}$	$C_O$	--	50	--	pF

Notes:  $T_A=25^{\circ}\text{C}$  unless otherwise specified.

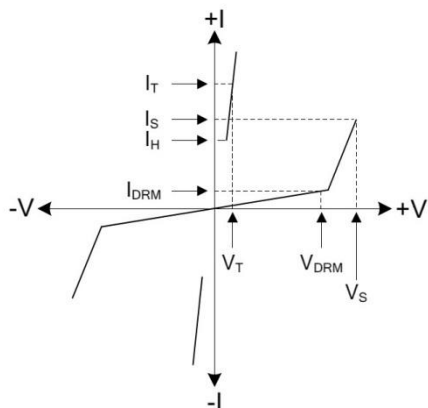
# ESD Suppressor 6V 3-Bidirectional SOIC-08

ME63BSO850

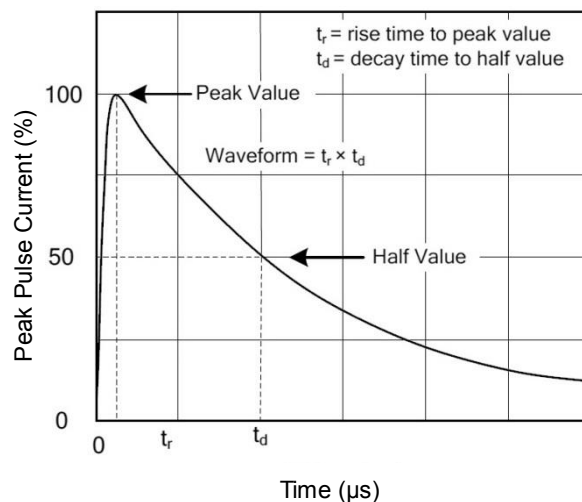
MERITEK

## CHARACTERISTIC CURVES

V-I Characteristics

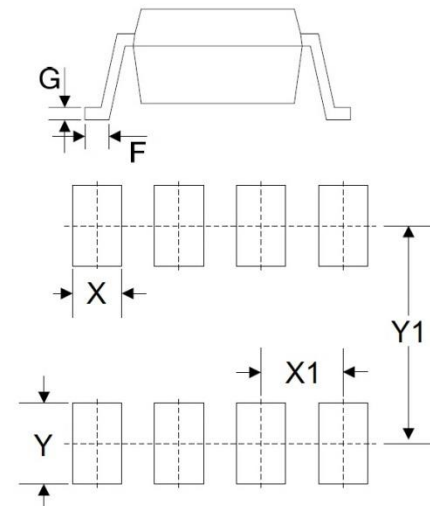
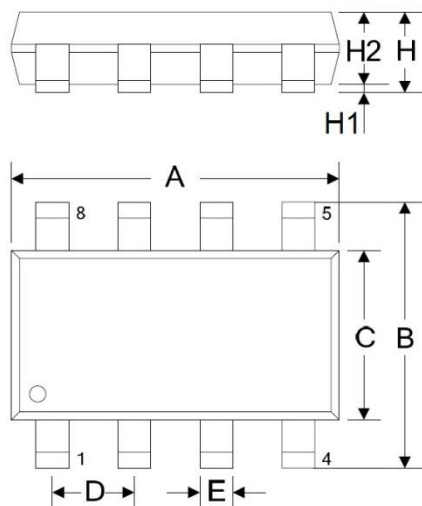


Pulse Waveforms



## DIMENSIONS AND RECOMMENDED LAND PATTERN

Item	Min (mm)	Max (mm)
A	4.80	5.00
B	5.80	6.20
C	3.80	4.00
D	1.27	1.27
E	0.33	0.51
F	0.40	1.27
G	0.19	0.25
H	1.35	1.75
H1	0.10	0.25
H2	1.45	1.45
X	0.73	0.73
X1	1.27	1.27
Y	1.20	1.20
Y1	6.60	6.60



\*Specifications subject to change without notice.