

ESD Suppressor

5V 66W SOT-363

MEP55U8A0S363

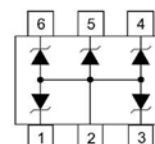
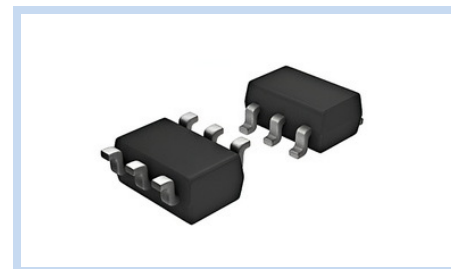
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FEATURES

- IEC 61000-4-2 ESD: $\pm 25\text{KV}$ (Air), $\pm 20\text{KV}$ (Contact)
- ESD Protection for five Uni-Direction Channels
- Low Clamping Voltage
- Ultra Low Dynamic Resistance

APPLICATIONS

- Microprocessor Based Equipment
- Peripherals



MAXIMUM RATINGS

Parameter		Symbol	Value	Unit
Peak Pulse Power (IEC61000-4-5)	$t_p=8/20\mu\text{s}$	P_{PP}	66	W
Peak Pulse Current (IEC61000-4-5)	$t_p=8/20\mu\text{s}$	I_{PP}	± 10	A
ESD Discharge (IEC61000-4-2)	Air Discharge	V_{ESD}	± 25	KV
	Contact Discharge		± 20	
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-55 to +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Symbol	Min	Typ.	Max	Units
Reverse Stand-off Voltage	--	V_{RWM}	-	-	5.0	V
Reverse Breakdown Voltage	$I_T=1\text{mA}$	$V_{(BR)}$	5.7	6.5	7.5	V
Forward Voltage Drop	$I_F=1\text{mA}$	V_F	-	-	0.9	V
Reverse Leakage Current	$V_{RWM}=5\text{V}$	I_R	-	-	1.0	μA
Dynamic Impedance	$I_{PPM}=5\text{A}, t_p=8/20\mu\text{s}$	R_d	-	0.3	-	Ω
Clamping Voltage ($t_p=8/20\mu\text{s}$)	$I_{PP}=5\text{A}, t_p=8/20\mu\text{s}$	V_C	-	8.2	-	V
	$I_{PP}=8\text{A}, t_p=8/20\mu\text{s}$		-	9.0	-	
Diode Capacitance	$V_R=0\text{V}, f=1\text{MHz}$	C_d	-	66	76	pF
	$V_R=2.5\text{V}, f=1\text{MHz}$		-	38	-	

Note: $T_A=25^{\circ}\text{C}$ unless otherwise noted

DIMENSIONS

Item	Min (mm)	Max (mm)
A1	0.00	0.10
A2	0.90	1.00
A3	0.90	1.10
b	0.15	0.35
c	0.08	0.175
D	2.00	2.20
e	0.65	
e1	1.20	1.40
E	2.00	2.45
E1	1.15	1.35
L	0.26	0.46
Y	1.09	
Y1	0.65	
Y2	2.39	
X	0.45	
X1	0.65	

