

SOT-363 Plastic-Encapsulate ESD Protection Diodes

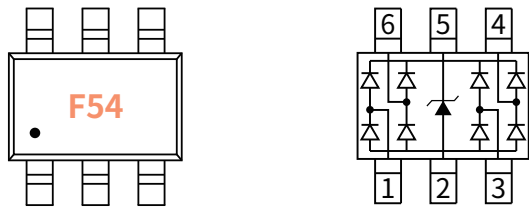
Features

- Low leakage current
- SOT-363 surface mount package
- IEC 61000-4-2 (ESD Air): ±25kV
- IEC 61000-4-2 (ESD Contact): ±20kV
- IEC 61000-4-5 (Lightning 8/20μs): 5A

Applications

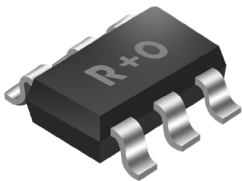
- Peripherals
- Industrial Equipment
- Notebook computers
- Portable Instrumentation
- Microprocessor Based Equipment
- Cell Phone Handsets and Accessories

Function Diagram



Reverse Working Voltage
5.0V Max.
Ultra Small Capacitance
 $C_{I/O-GND}=0.3pF(Typ.)$
 $C_{I/O-I/O}=0.8pF(Max.)$

SOT-363

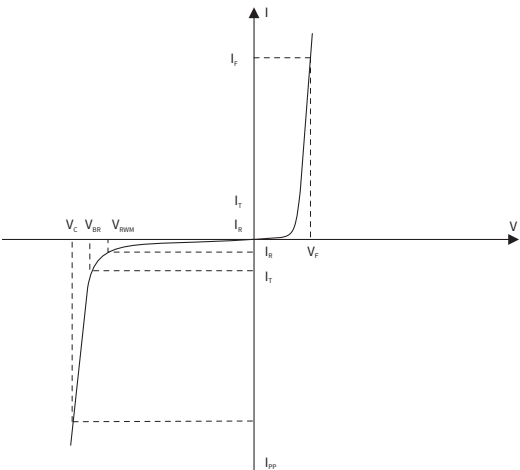


Maximum Ratings (Ta=25°C Unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
VESD	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2(Air)	±25	KV
		ESD per IEC 61000-4-2(Contact)	±20	KV
P _{PP}	Peak Pulse Power	tp = 8/20 μs	75	W
I _{PP}	Rated Peak Pulse Current	tp = 8/20 μs	5.0	A
T _J	Operating JunctionTemperature Range	—	-55 to +125	°C
T _{STG}	Operating JunctionTemperature Range	—	-55 to +150	°C

Electrical Parameter

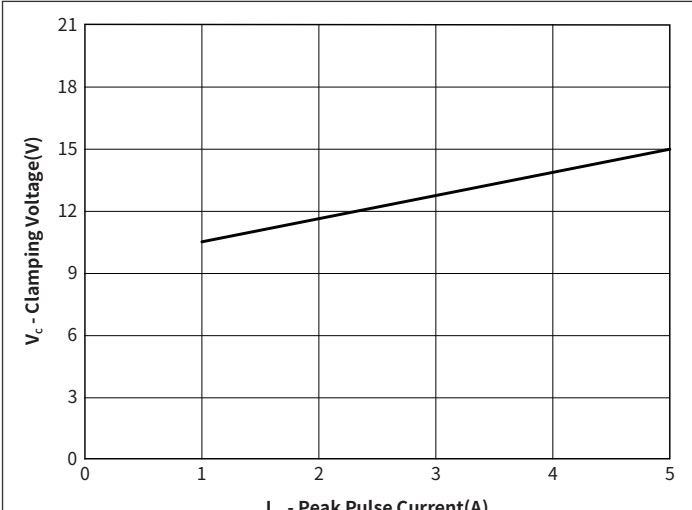
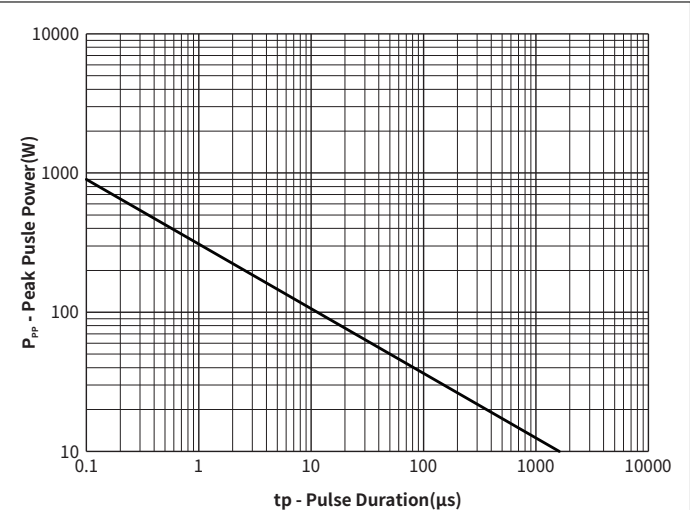
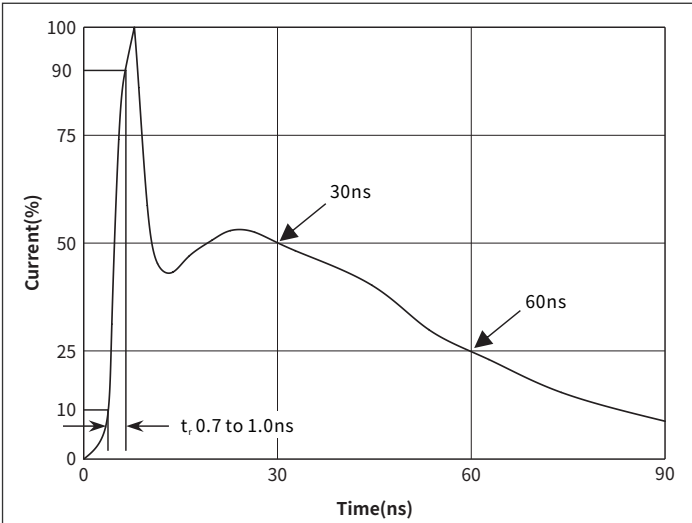
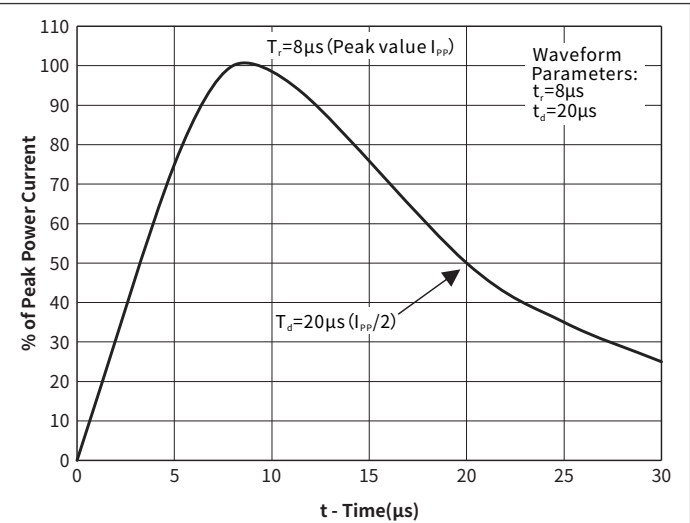
SYMBOL	PARAMETER
V _C	Clamping Voltage @ I _{PP}
V _{BR}	Breakdown Voltage @ I _T
I _{PP}	Peak Pulse Current
I _T	Test Current
I _R	Reverse Leakage Current @ VRWM
V _{RWM}	Peak Reverse Working Voltage
P _{PP}	Peak Pulse Power Dissipation
C _J	Junction Capacitance @ V _R =0V,f=1MHz
I _F	Forward Current
V _F	Forward Voltage @I _F



Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	CONDITION	Min	Typ	Max	UNIT
Peak Reverse Working Voltage	V_{RWM}	$T_a=25^{\circ}C$	—	—	5.0	V
Breakdown Voltage	V_{BR}	$I_R=1mA, T_a=25^{\circ}C$	6.0	—	—	V
Reverse Leakage Current	I_R	$V_R=5.0V, T_a=25^{\circ}C$	—	—	0.5	μA
Clamping Voltage	V_C	$I_{PP}=1.0A, t_p=8/20\mu s$	—	—	10	V
		$I_{PP}=5.0A, t_p=8/20\mu s$	—	—	15	
Junction Capacitance	C_J	$V_{RWM}=0V, f=1MHz, I/O \text{ pin to GND}$	—	—	0.8	pF
		$V_{RWM}=0V, f=1MHz, \text{Between I/O pins}$	—	0.3	0.4	

Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



H5VUT3UA

Uni-directional 5V Ultra Small Capacitance ESD

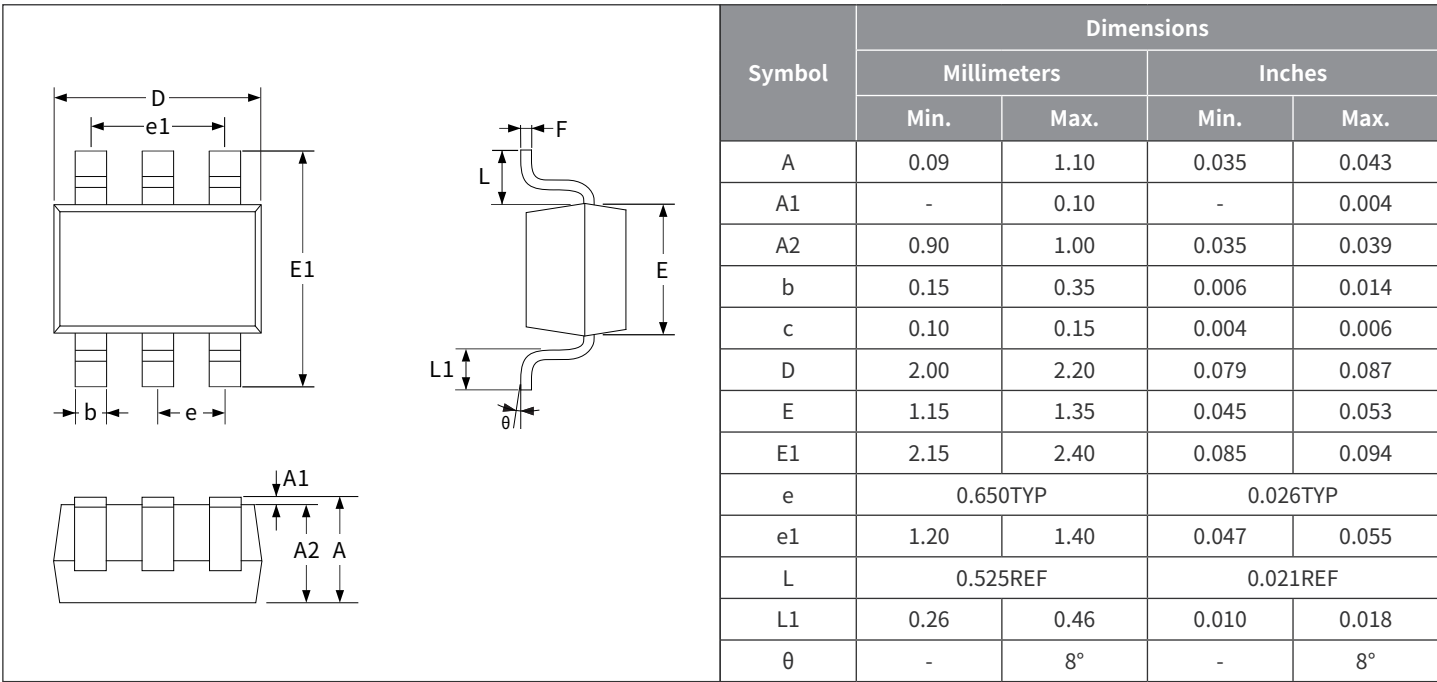
Ordering Information

PREFERED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H5VUT3UA	SOT-363	2.10×2.275×0.095	7"REEL	3000

Recommended Soldering Conditions



Package Outline Dimensions (SOT-363)



Suggested Pad Layout

