

## Features

- 60Watts peak pulse power ( $t_p = 8/20\mu s$ )
- SOT-363 Package
- Unidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Normal capacitance (30pF typical)
- ESD Protection for high-speed data lines to:  
 IEC 61000-4-2  $\pm 30KV$  contact  $\pm 30KV$  air  
 IEC 61000-4-4 (EFT) 40A (5/50ns)  
 IEC 61000-4-5 (Lightning) 6A (8/20 $\mu s$ )



## Mechanical Data

- **Case:** SOT-363 (plastic package).  
 Lead free; RoHS compliant; Halogen free
- **Molding Compound Flammability Rating:**  
 UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:  
 260 °C/10 sec. at terminals

## Applications

- Computers and peripherals
- Communication systems
- Notebook
- Cellular handsets and accessories
- Portable electronics
- Audio and video equipment

## Absolute Maximum Ratings

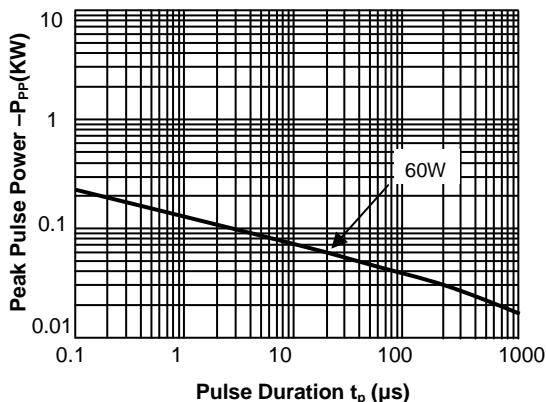
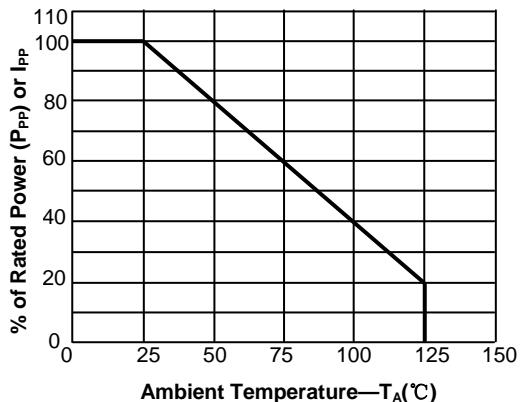
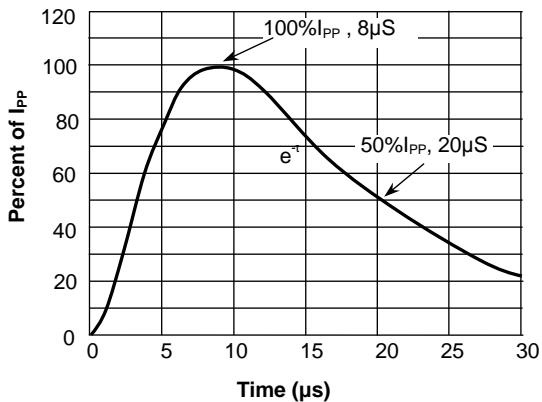
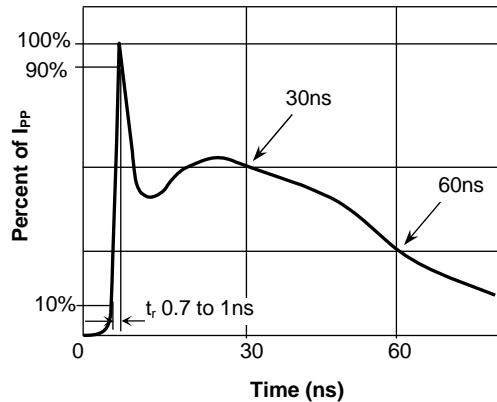
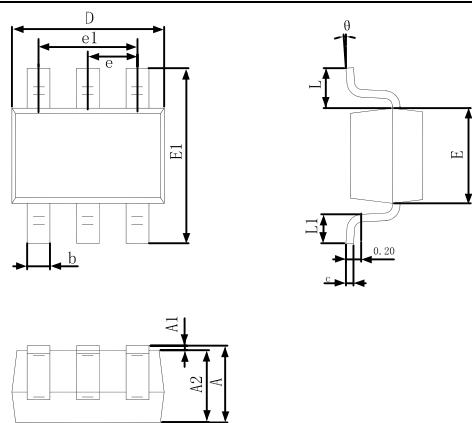
Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_p=8/20\mu s$ )	$P_{PP}$	60	W
ESD contact/air discharge (IEC-61000-4-2)	$V_{ESD}$	30/30	kV
Peak Pulse Current ( $t_p = 8/20\mu s$ )	$I_{PP}$	6.0	A
Junction Temperature	$T_J$	-55 to +125	°C
Storage temperature	$T_{STG}$	-55 to +150	°C

## Electrical Characteristics

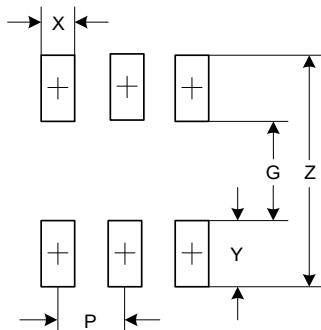
( $T_A = 25$  °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	6			V
Reverse Leakage Current	$I_R$	$V_R=5V$			5	µA
Clamping Voltage(SURGE)	$V_C$	$I_{PP}=6A, T_p=8/20\mu s$			10	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$		30		pF

**Typical Characteristics** ( $T_{amb} = 25^{\circ}\text{C}$  unless otherwise specified)
**Fig.1 Peak Pulse Power Rating Curve****Fig.2 Pulse Derating Curve****Fig.3 Pulse Waveform-8/20μs****Fig.4 Pulse Waveform-ESD(IEC61000-4-2)**
**Package Dimensions**


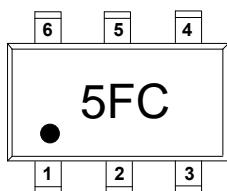
Symbol	Dimensions in millimeters		
	Min	Nom	Max
A	0.90	1.00	1.10
A1	0.00	0.05	0.10
A2	0.90	0.95	1.00
b	0.15	0.25	0.35
c	0.10	0.13	0.15
D	2.00	2.10	2.20
E	1.15	1.25	1.35
E1	2.15	2.28	2.40
e	0.650 BSC		
e1	1.20	1.30	1.40
L	0.525 BSC		
L1	0.26	0.36	0.46
θ	0°	4°	8°

### Pad Dimensions



Dimensions		
Symbol	Inches	Millimeter
Z	0.090	2.30
G	0.073	1.85
P	0.020 TYP	0.65 TYP
X	0.008	0.20
Y	0.033	0.85

### Marking



### Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
YEDST360506AV	SOT-363	Tape and reel	3000pcs / reel	EIA STD RS-481