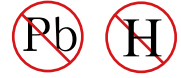


**ESD Protection Diode****Features**

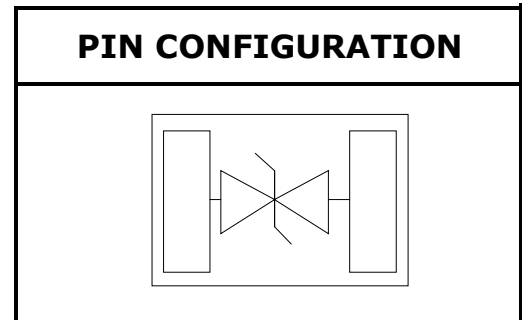
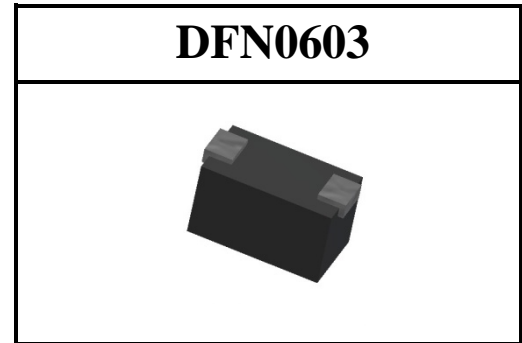
- Capacitance : 5.6pF (typ.)
- Reverse working voltage : 3.3V
- IEC61000-4-2 (ESD) : ± 30 kV (air)
- IEC61000-4-2 (ESD) : ± 30 kV (contact)
- IEC61000-4-5 (Surge) : 5A (8/20 μ s)
- Marking : T

Main applications

- High Speed Line: USB1.0/2.0, VGA
- Serial and Parallel Ports
- Notebooks, Desktops, Servers
- Projection TV
- Cellular handsets and accessories
- Portable instrumentation
- Peripherals

Ordering Information

Device	Qty per Reel	Reel Size
YT0356AF2	15000	7Inch

**Maximum Ratings (TA=25°C unless otherwise noted)**

Parameter	Symbol	Test conditions	Limit	Unit
ESD Rating per IEC61000-4-2	V_{ESD}	Contact	± 30	kV
		Air	± 30	
Peak pulse power	PPP	tp = 8/20 μ s	60	W
Peak pulse current	IPP	tp = 8/20 μ s	5	A
Operating junction temperature range	TJ		-55~ +150	°C
Storage temperature range	TSTG		-55~ +150	°C

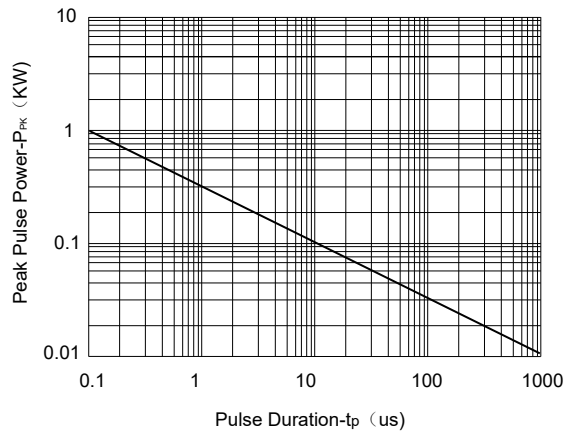
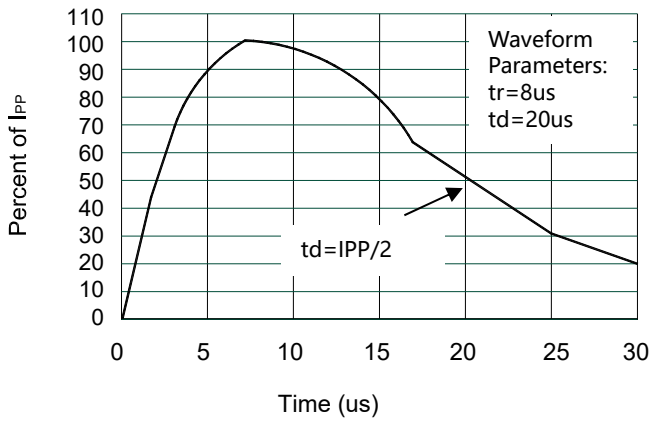
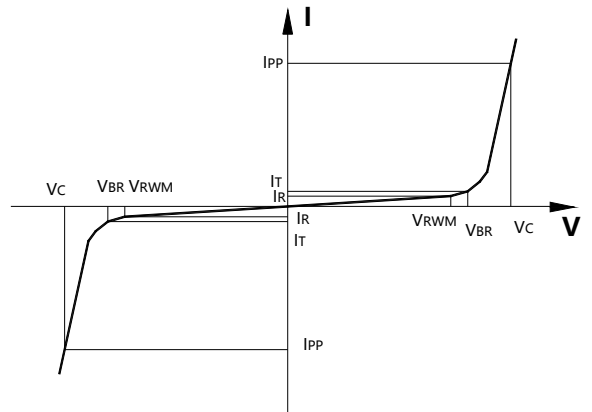
Electrical Characteristics (TA=25°C unless otherwise noted)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Reverse working voltage	V_{RWM}	I/O to GND	-	-	3.3	V
Breakdown voltage	V_{BR}	$I_T=1$ mA	3.8	-	-	V
Reverse leakage current	I_R	$V_{RWM}=3.3$ V	-	0.1	1.0	μ A
Clamping voltage (8/20us)	V_C	$I_{PP}=1$ A	-	-	7.6	V
Junction capacitance	C_J	$V_R=0$ V, f=1MHz	-	5.6	10	pF

DEVICE CHARACTERISTICS

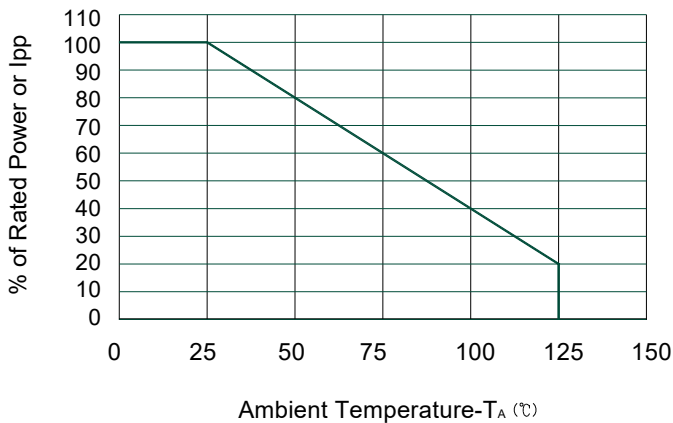
YT0356AF2

Symbol	Parameter
V_{RWM}	Working Peak Reverse Voltage
V_{BR}	Breakdown Voltage @ I_T
V_C	Clamping Voltage @ I_{PP}
I_T	Test Current
I_{RM}	Leakage current at V_{RWM}
I_{PP}	Peak pulse current
C_O	Off-state Capacitance
C_J	Junction Capacitance



Pulse Waveform

Non-Repetitive Peak Pulse Power vs. Pulse Time



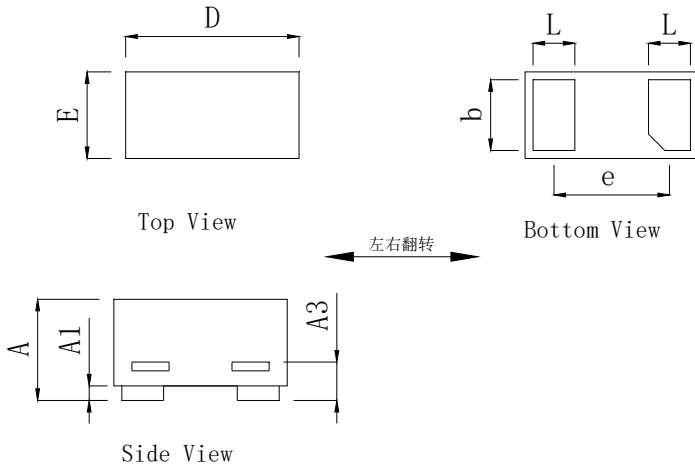
PACKAGE OUTLINE & DIMENSIONS

YT0356AF2

Mechanical Data

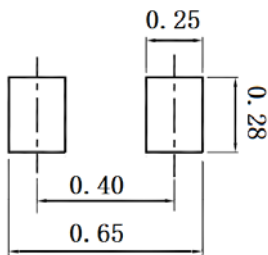
Case: DFN0603

Case Material: Molded Plastic. UL Flammability

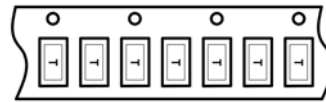


DIM	Millimeters	
	Min	Max
A	0.230	0.330
A1	0.000	0.050
A3	0.102REF	
D	0.550	0.650
E	0.250	0.350
b	0.215	0.275
L	0.115	0.175
e	0.40BSC	

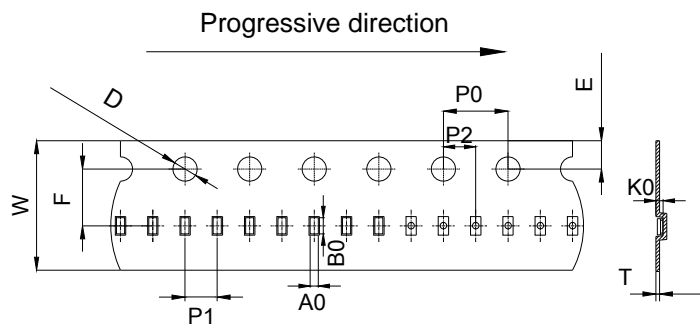
Recommended Pad outline



Device Orientation in Tape



Device Orientation in Tape



PACKAGE	W	E	F	P0	D	P2	P1	T	A0	B0	K0
DFN0603	8mm	1.75mm	3.5mm	4mm	1.5mm	2mm	2mm	0.23mm	0.34mm	0.67mm	0.4mm
	±0.1	±0.1	±0.05	±0.1	±0.1	±0.05	±0.1	±0.02	±0.05	±0.05	±0.05