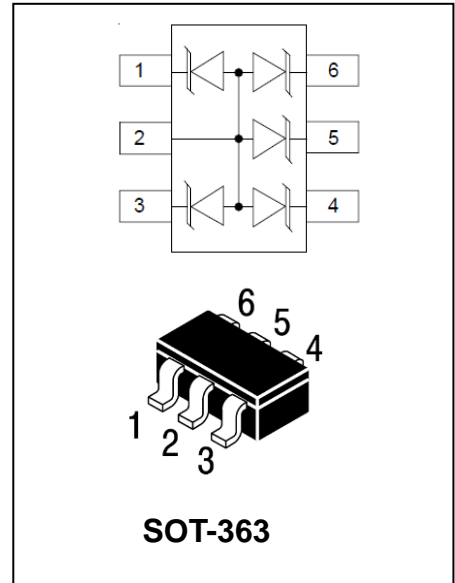


## Features

- ◆ 150 Watts peak pulse power ( $t_p = 8/20\mu s$ )
- ◆ Transient protection for high speed data lines to IEC 61000-4-2 (ESD)  $\pm 15kV$  (air),  $\pm 8kV$  (contact) IEC 61000-4-4 (EFT) 40A (5/50ns)
- ◆ Working voltages : 5V
- ◆ Protects five I/O lines
- ◆ Small package for use in portable electronics
- ◆ Low operating and clamping voltages
- ◆ Solid-state silicon avalanche technology



## Applications

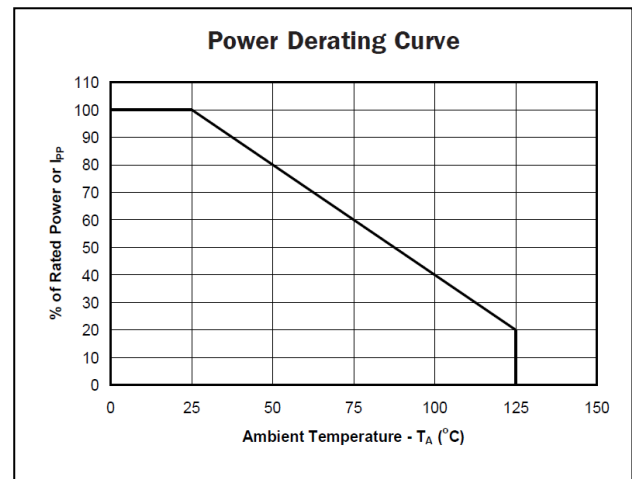
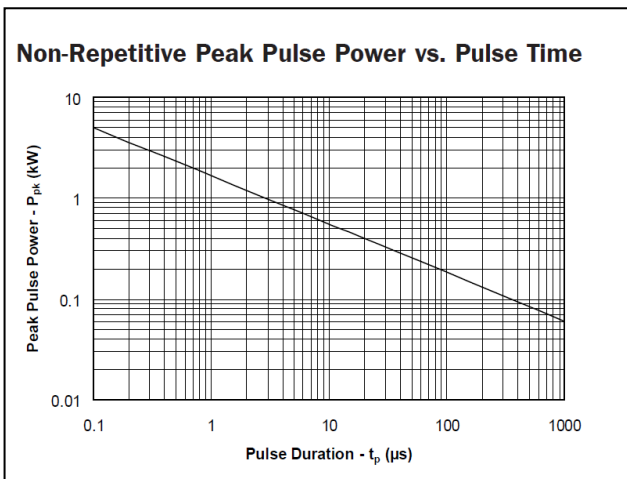
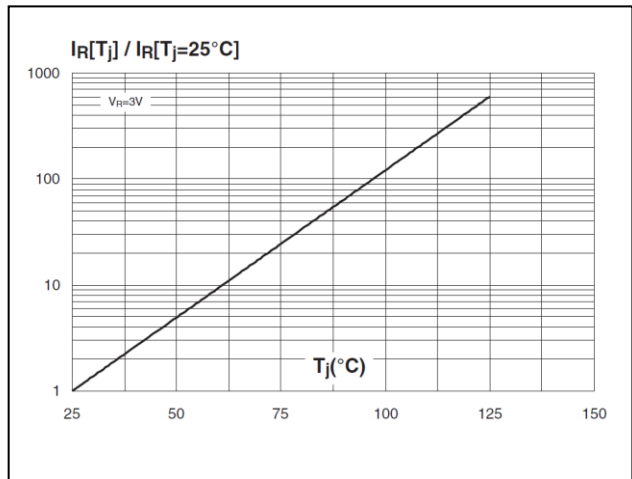
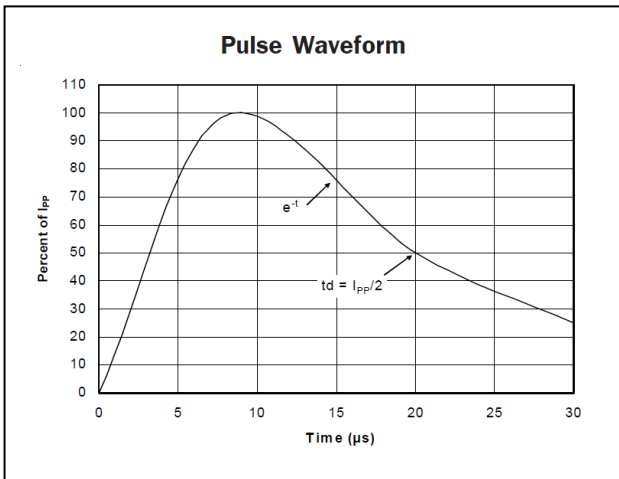
- ◆ Notebooks, Desktops, Servers and Video Graphics Cards
- ◆ USB Power & Data Line Protection
- ◆ Monitors and Flat Panel Displays
- ◆ I<sup>2</sup>C Bus Protection
- ◆ Portable Instrumentation
- ◆ Set Top Box

## Maximum Rating @ $T_a=25^\circ C$ unless otherwise specified

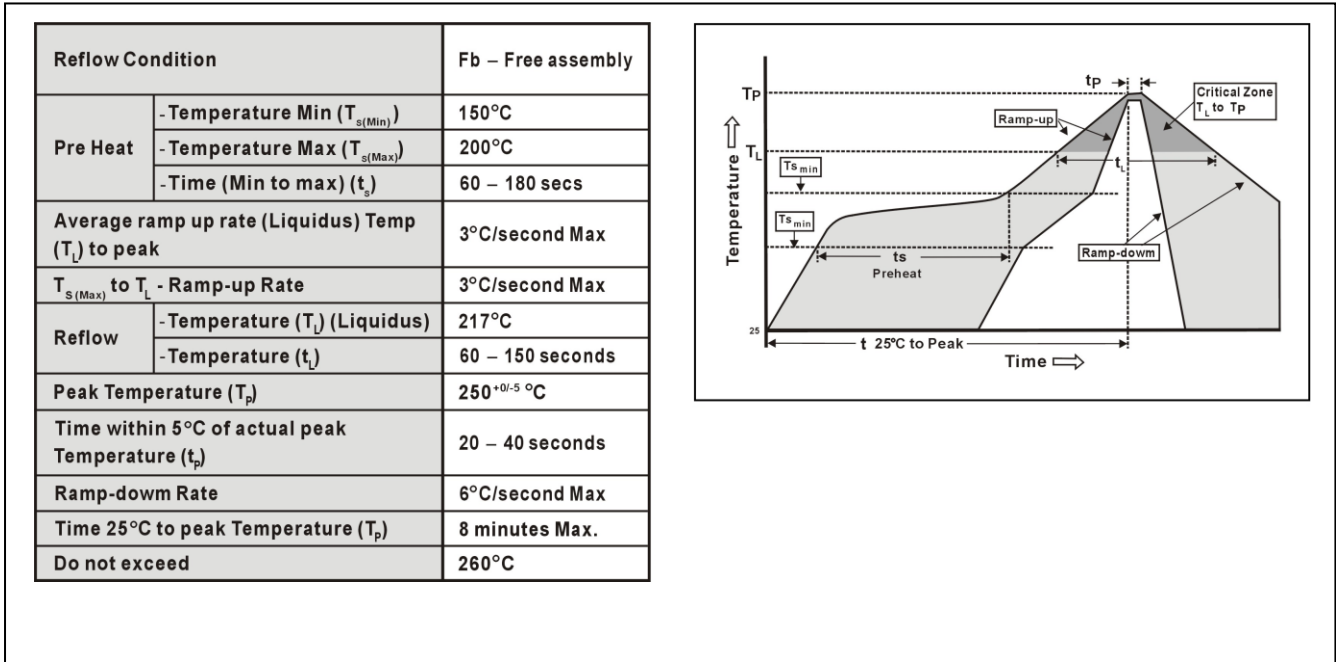
Symbol	Parameter	Ratings	Units
$P_{PK}$	Peak Pulse Power ( $t_p = 8/20\mu s$ )	150	Watts
$T_L$	Lead Soldering Temperature	260(10sec.)	$^\circ C$
$T_J$	Operating Temperature	-55 to +125	$^\circ C$
$T_{STG}$	Storage Temperature	-55 to +150	$^\circ C$

**Electrical Characteristics @ Ta=25°C unless otherwise**

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Units
V <sub>RWM</sub>	Reverse Working Voltage	Any I/O to Ground			5.0	V
V <sub>BR</sub>	Reverse Breakdown Voltage	I <sub>r</sub> = 1mA, Any I/O to Ground	5.5			V
I <sub>R</sub>	Reverse Leakage Current	V <sub>RWM</sub> = 5V, Any I/O to Ground			1	μA
V <sub>C</sub>	Clamping Voltage	I <sub>PP</sub> = 1A, t <sub>p</sub> = 8/20μs, any I/O pin to Ground			10	V
		I <sub>PP</sub> = 8A, t <sub>p</sub> = 8/20μs, any I/O pin to Ground			15	V
C <sub>J</sub>	Junction Capacitance	V <sub>R</sub> = 0V, f = 1MHz, between I/O pins			40	pF
		V <sub>R</sub> = 0V, f = 1MHz, any I/O pin to Ground			60	pF

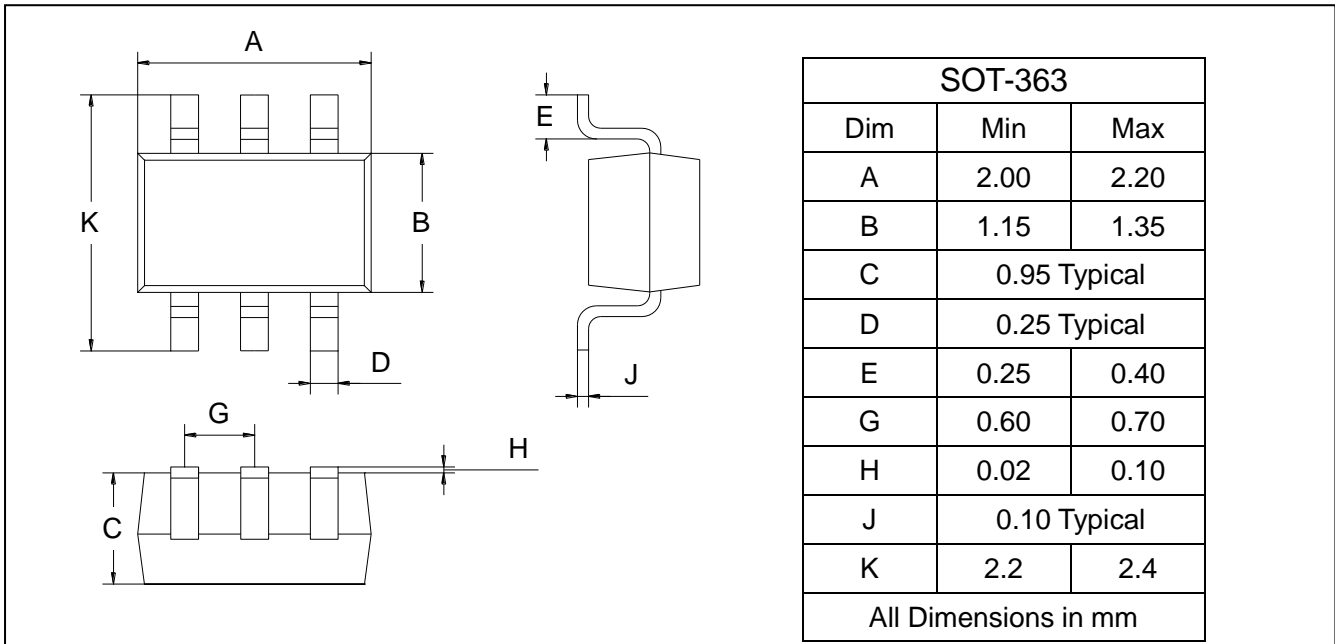
**Typical Characteristics @ Ta=25°C unless otherwise specified**


## Soldering Parameters

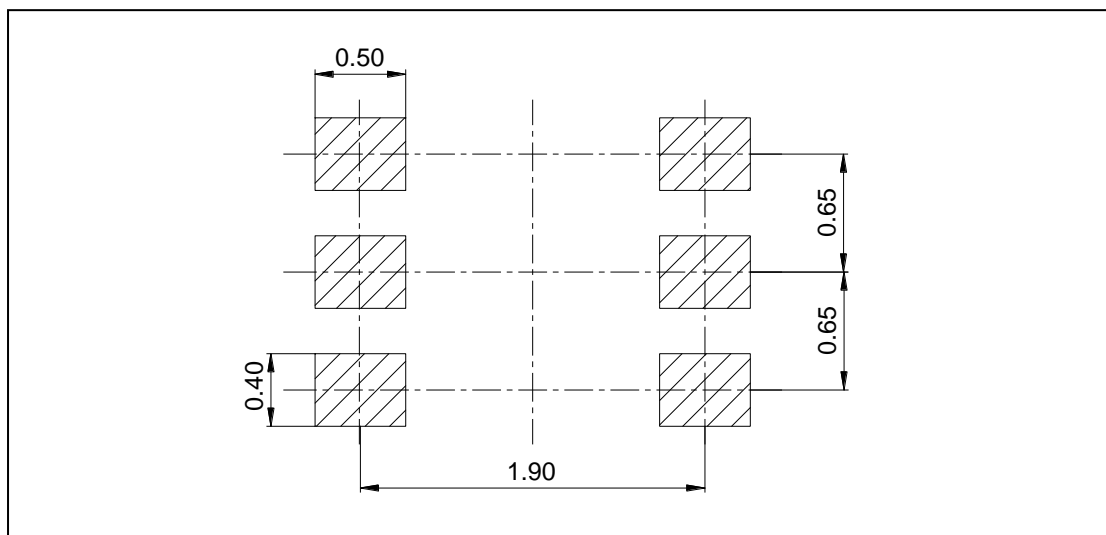


## Package Outline

Plastic surface mounted package

**SOT-363**


## Soldering Footprint



## Package And Marking Information

Device	Package	Shipping	Reel Size
SMF05C	SOT-363	3000/Reel	7 inch