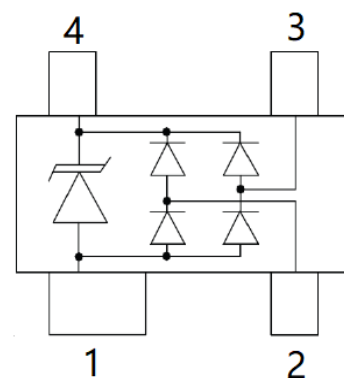




SR05 TVS Diode Array

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 two I/O lines
- ◆ Low operating and clamping voltages
- ◆ Solid-state silicon avalanche technology



SOT-143

Applications

- ◆ Notebooks, Desktops, Servers and Video Graphics Cards
 - ◆ USB Power & Data Line Protection
 - ◆ Monitors and Flat Panel Displays
 - ◆ I²C Bus Protection
 - ◆ Portable Instrumentation
 - ◆ Set Top Box
- Marking : R05

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

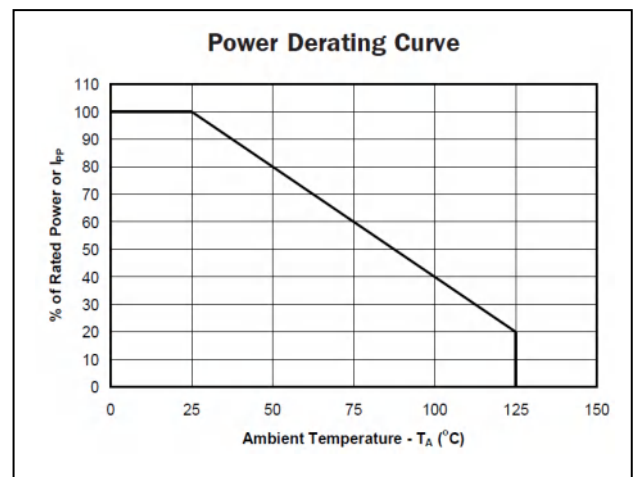
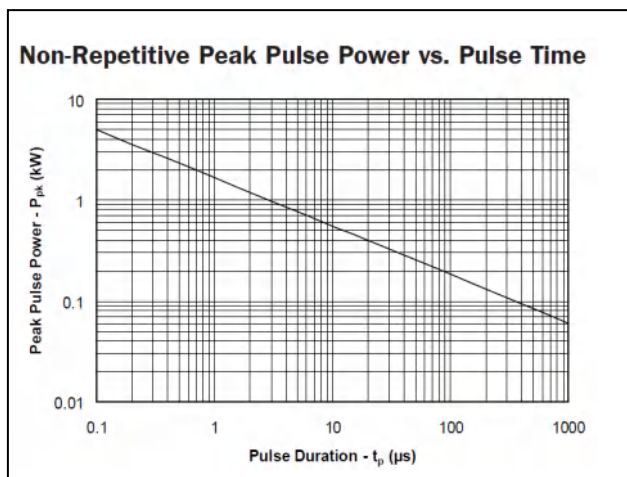
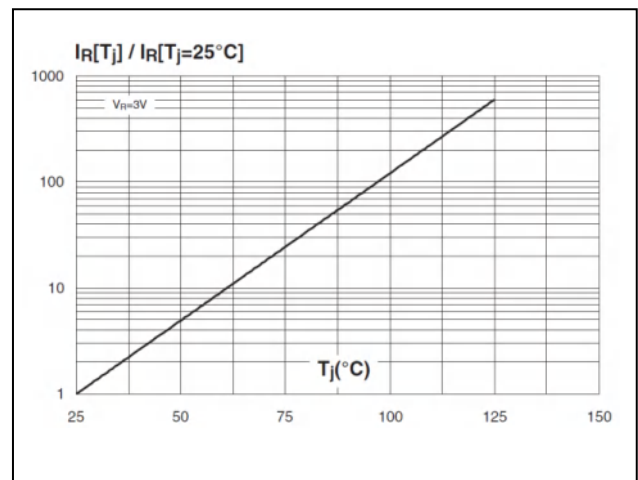
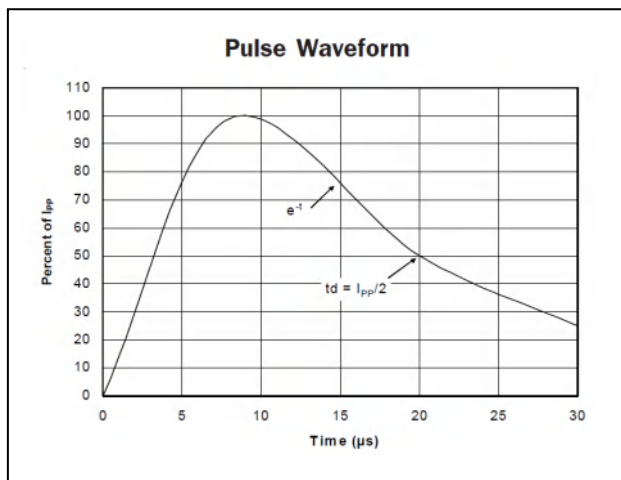
Symbol	Parameter	Ratings	Units
P_{PK}	Peak Pulse Power ($t_p = 8/20\mu s$)	150	Watts
T_L	Lead Soldering Temperature	260(10sec.)	$^\circ C$
T_J	Operating Temperature	-55 to +125	$^\circ C$
T_{STG}	Storage Temperature	-55 to +150	$^\circ C$



Electrical Characteristics@ Ta=25°C unless otherwise

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Units
V_{RRM}	Reverse Working Voltage	Any I/O to Ground			5	V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1mA$, Any I/O to Ground	6			V
I_R	Reverse Leakage Current	$V_{RWM} = 5V$, Any I/O to Ground			1	μA
V_C	Clamping Voltage	$I_{PP} = 1A$, $t_p = 8/20\mu s$, any I/O pin to Ground			15.5	V
		$I_{PP} = 4A$, $t_p = 8/20\mu s$, any I/O pin to Ground			20	V
C_J	Junction Capacitance	$V_R = 0V$, $f = 1MHz$, between I/O pins		0.3	0.6	pF
		$V_R = 0V$, $f = 1MHz$, any I/O pin to Ground		0.6	1	pF

Typical Characteristics@ Ta=25°C unless otherwise specified





Package Outline

Plastic surface mounted package

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