

SR70

ESD Protection Diode

VOLTAGE 70 Volt

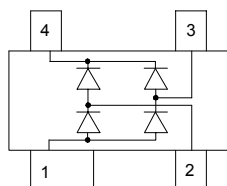
FEATURES

- Low Capacitance
- Low Clamping Voltage
- Unidirectional Configuration
- IEC 61000-4-2 $\pm 30\text{KV}$ air, $\pm 30\text{KV}$ contact
- Lead free in compliance with EU RoHS

MECHANICAL DATA

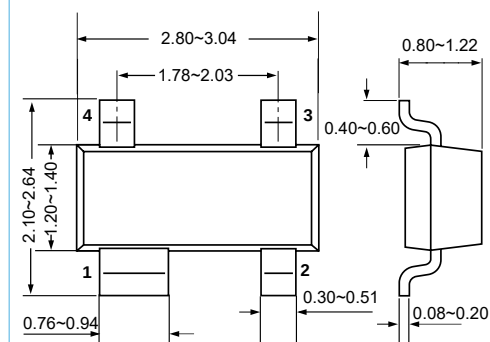
- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0

Schematic Diagram



SOT-143

Unit:mm



ABSOLUTE MAXIMUM RATINGS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Limit	Unit
Peak Current ($t_p=8/20\mu\text{s}$)	I_{PP}	24	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ +150	$^\circ\text{C}$

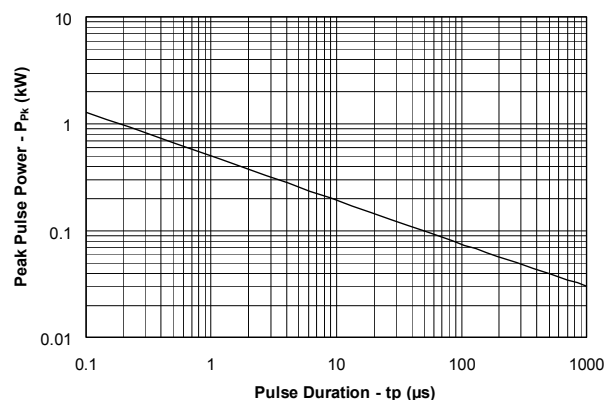
ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Units
Reverse Standoff Voltage	V_{RWM}				70	V
Reverse Leakage Current	I_R	$V_R=70\text{V}$			5	μA
Clamp Voltage	V_C	$I_{PP}=1\text{A}$, $t_p=8/20\mu\text{s}$			1.5	V
		$I_{PP}=10\text{A}$, $t_p=8/20\mu\text{s}$			3.3	V
		$I_{PP}=24\text{A}$, $t_p=8/20\mu\text{s}$			7	V
Junction Capacitance	C_J	Between I/O pins and Ground Reverse Bias=0V, $f=1\text{MHz}$		5.0	10	pF
		Between I/O pins Reverse Bias=0V, $f=1\text{MHz}$		3		pF

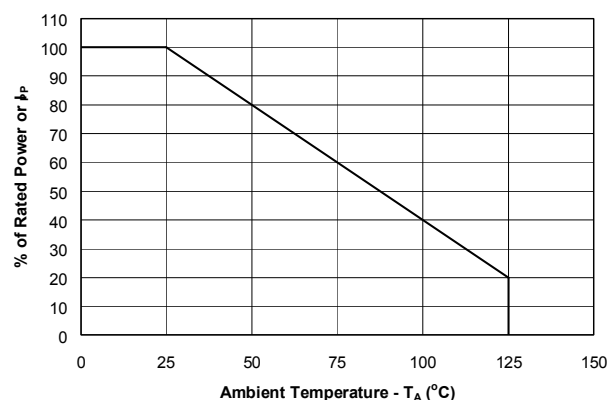
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Typical Characteristics

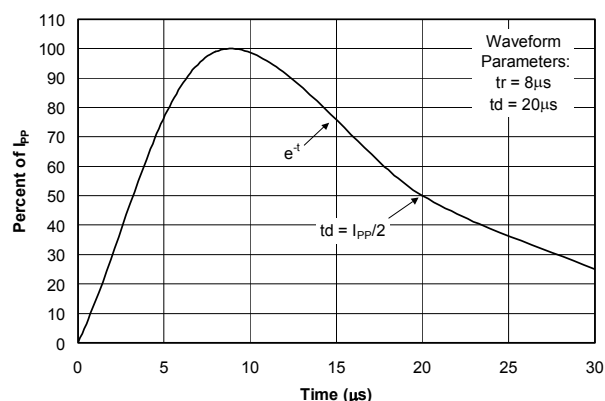
Non-Repetitive Peak Pulse Power vs. Pulse Time



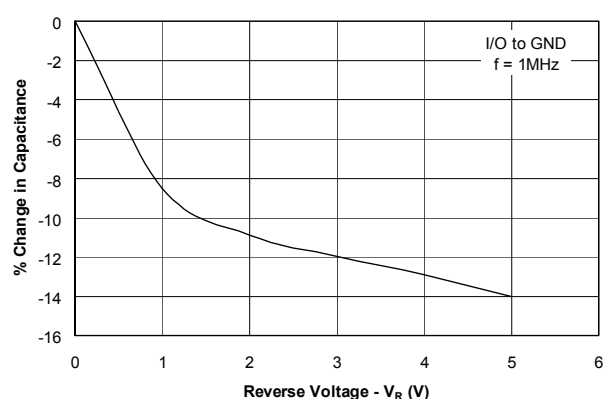
Power Derating Curve



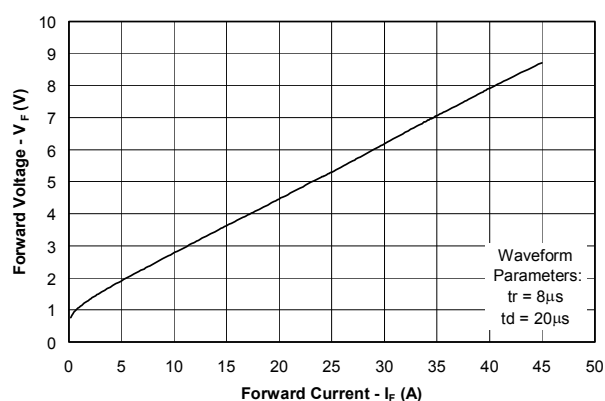
Pulse Waveform



Capacitance vs. Reverse Voltage



Forward Voltage vs. Forward Current



SR70

ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SR70	SOT-143	7 Inch	3000