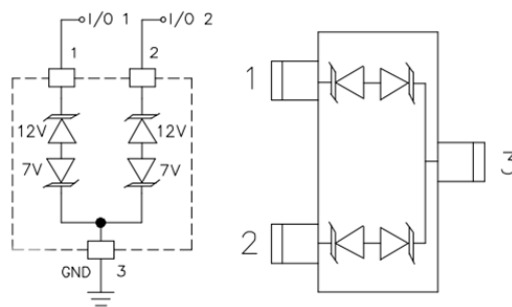




SM712 TVS Diode Array

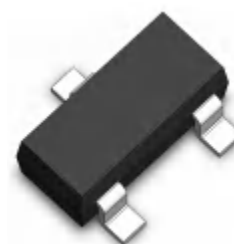
Features

- 150 Watts peak pulse power ($t_p = 8/20\mu s$)
- Transient protection for high speed datalines to IEC 61000-4-2 (ESD) $\pm 15kV$ (air), $\pm 8kV$ (contact) IEC 61000-4-4 (EFT) 40A (5/50ns)
- Protects tow +12V to -7V line
- Low operating and clamping voltages
- Solid-state silicon avalanche technology



Applications

- Protection of RS-485 transceivers with extended common-mode range
- Security systems
- Automatic Teller Machines
- HFC systems
- Networks



SOT-23

Absolute Maximum Ratings ($T_{amb}=25^{\circ}C$ unless otherwise specified)

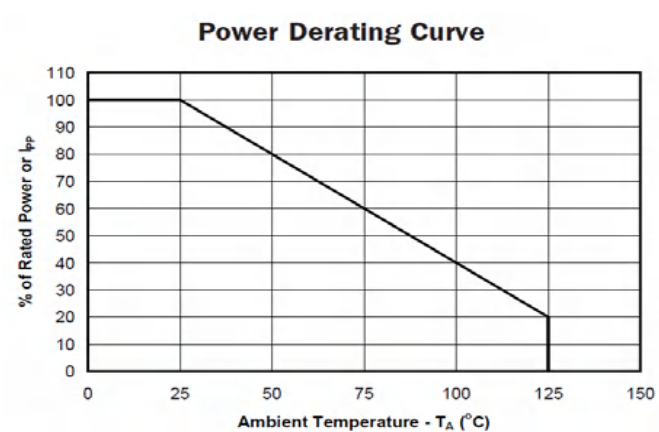
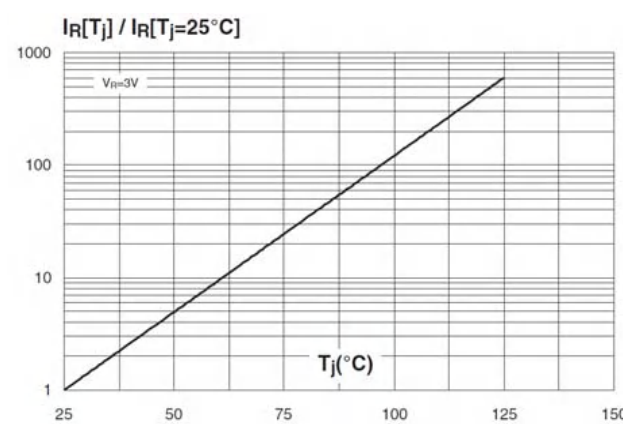
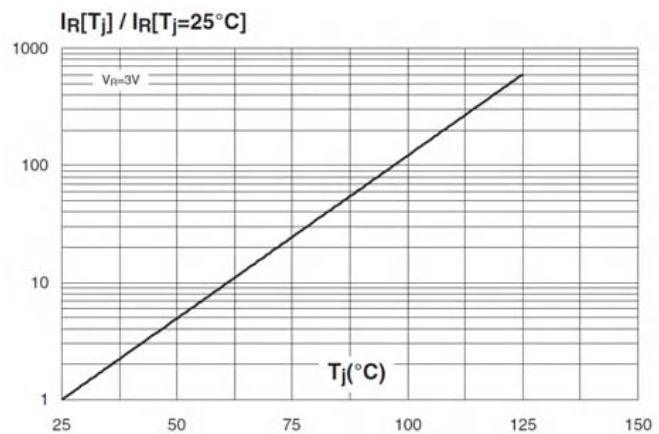
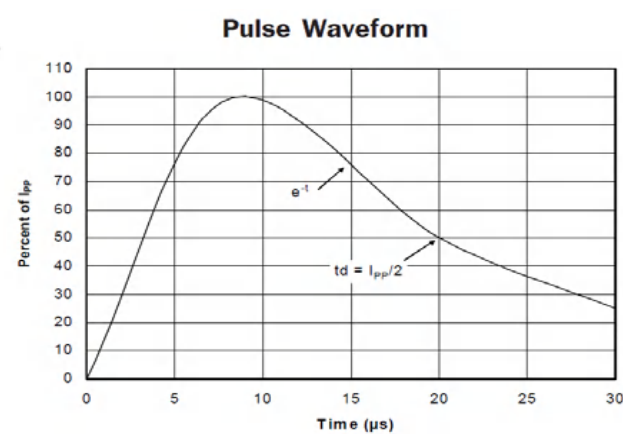
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μs)	PPK	150	W
ESD per IEC 61000-4-2 (Air)	V_{ESD}	± 15	Kv
ESD per IEC 61000-4-2 (Contact)		± 8	
Operating Temperature Range	T_J	-55 to +125	$^{\circ}C$
Storage Temperature Range	T_{STJ}	-55 to +150	$^{\circ}C$



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

Part Number	Device Marking		V_{RWM} (V)	V_{BR} (V)	I_T (mA)	V_C @1A	V_C		I_R μA (Max)	C (Pf) (Typ.)
							(Max)	(@A)		
SM712	B712	Pin 3 to Pin 1/Pin 2	7	7.5	1	10	12	8	10	75
		Pin 1 / Pin 2 to Pin 3	12	13.2	1	19	26	8	1	75

Characteristic Curves

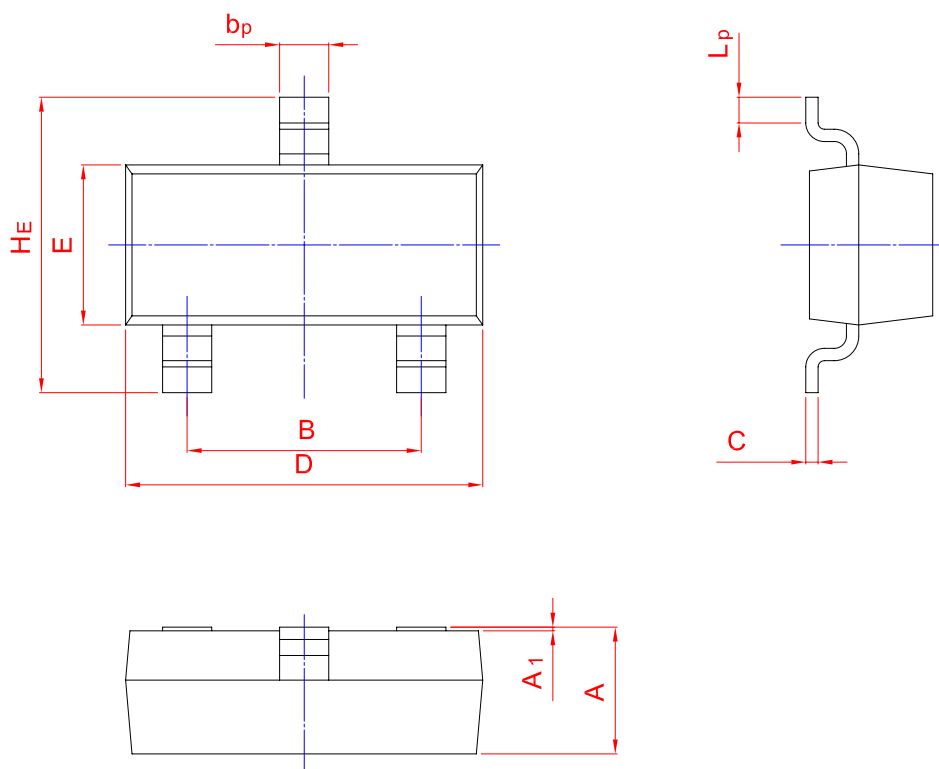




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

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UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20