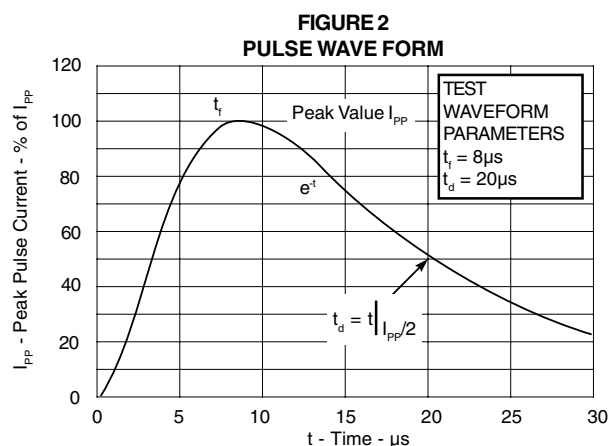
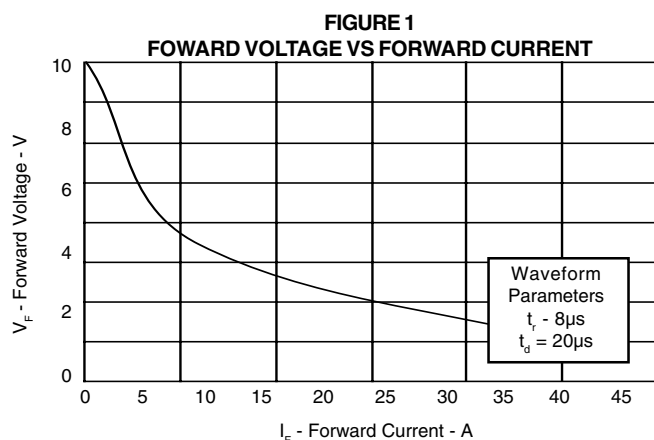


DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Operating Temperature	T_A	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C
Forward Peak Pulse Current ($t_p = 8/20\mu s$)	I_{PP}	24	A

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER	DEVICE MARKING CODE	REPETITIVE PEAK REVERSE VOLTAGE V_{RRM} VOLTS	MINIMUM REVERSE BREAKDOWN VOLTAGE $I @ 50\mu A$ $V_{(BR)}$ VOLTS	MAXIMUM REVERSE LEAKAGE CURRENT @ V_{RRM} I_R μA	MAXIMUM FORWARD CLAMPING VOLTAGE 8/20 μs $I_{PP} @ 1A$ V_{FC} VOLTS	MAXIMUM FORWARD CLAMPING VOLTAGE 8/20 μs $I_{PP} @ 24A$ V_{FC} VOLTS	MAXIMUM CAPACITANCE (See Note 1) @ 0V, 1 MHz C_J pF
SR70	PSA	70	85	1	1.5	7	10

Note 1: Measured between I/O pins and ground.



SOT-143 PACKAGE OUTLINE & DIMENSIONS

PACKAGE OUTLINE

Technical drawing of the SOT-143 package outline. The top view shows dimensions A (total width), G (lead spacing), L (lead width), B (package width), F (lead width), and D (lead spacing). The side view shows dimensions S (package height), J (lead height), K (lead width), and L1 (lead length). The end view shows dimensions H (package thickness), C (package width), and R (lead width).

SOT-143

3D perspective view of the SOT-143 package, showing its rectangular body and two leads.

PACKAGE DIMENSIONS

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	2.80	3.04	0.110	0.120
B	1.20	1.39	0.047	0.055
C	0.84	1.14	0.033	0.045
D	0.39	0.50	0.015	0.020
F	0.79	0.93	0.031	0.037
G	1.78	2.03	0.070	0.080
H	0.013	0.10	0.0005	0.004
J	0.08	0.15	0.003	0.006
K	0.46	0.60	0.018	0.024
L	0.445	0.60	0.0175	0.024
L1	0.40	0.60	0.016	0.024
R	0.72	0.83	0.028	0.033
S	2.11	2.48	0.083	0.098

MOUNTING PAD

TYPICAL		
DIM	Millimeters	Inches
X	1.2 x 0.9	0.047 x 0.035
Yx3	0.85 x 0.85	0.033 x 0.033
m	2.0	0.079
n	1.9	0.075

Mounting pad diagram showing dimensions m (pad width) and n (pad height). The diagram includes labels X, Y, Y, and Y, indicating the pad layout for the package.

NOTES

1. Dimensioning and tolerances per ANSI Y14.5M, 1985.
2. Controlling Dimension: Inches
3. Dimensions are exclusive of mold flash and metal burrs.

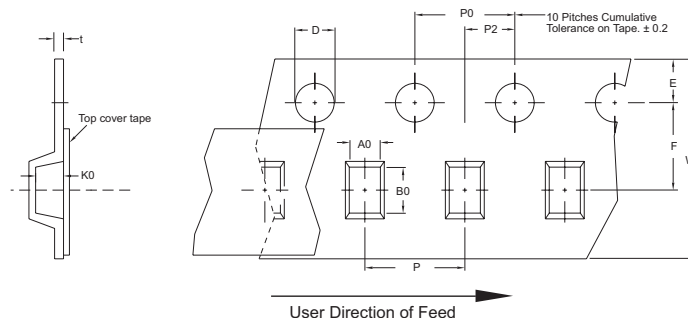
TAPE & REEL ORDERING NOMENCLATURE

1. Surface mount product is taped and reeled in accordance with EIA-481.
2. Suffix-T7 = 7 Inch Reel - 3,000 pieces per 8mm tape, i.e., SR70-T7.
3. Suffix-T13 = 13 Inch Reel - 10,000 pieces per 8mm tape, i.e., SR70-T13.
4. Suffix-LF = Lead-Free, Pure-Tin Plating, i.e., SR70-LF-T7.

Outline & Dimensions: Rev 3 - 3/08, 06011

Tape & Reel Specifications (Dimensions in millimeters)

Reel Dia.	Tape Width	A0	B0	K0	D	E	F	W	P0	P2	P	tmax
178mm (7")	8mm	3.10 ± 0.10	2.70 ± 0.10	1.35 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30	4.00 ± 0.10	2.00 ± 0.05	4.00 ± 0.10	0.25



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ProTek Devices

2929 South Fair Lane, Tempe, AZ 85282

Tel: 602-431-8101 Fax: 602-431-2288

E-Mail: sales@protekdevices.com

Web Site: www.protekdevices.com