

TYPICAL DEVICE CHARACTERISTICS

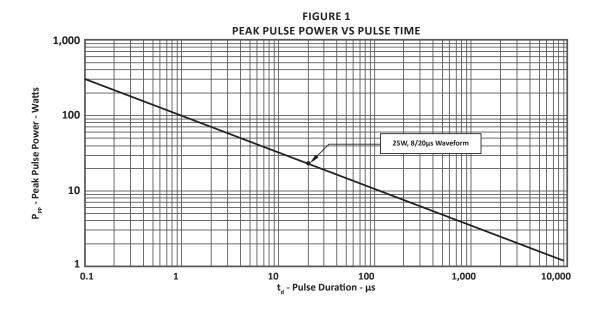
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified						
PARAMETER	SYMBOL	VALUE	UNITS			
Peak Pulse Power (tp = 8/20μs) - See Figure 1	P _{pp}	25	Watts			
Operating Temperature	T _L	-55 to 150	°C			
Storage Temperature	T _{stg}	-55 to 150	°C			
Maximum Forward Voltage @ 10mA	V _F	1.0	V			

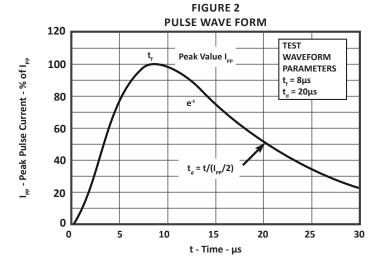
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified									
PART NUMBER	DEVICE MARKING	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM LEAKAGE CURRENT	TYPICAL CAPACITANCE (Note 1)			
		V _{wm} VOLTS	@ 1mA V _(BR) VOLTS	@ I _p = 2A V _c VOLTS	@V _{wм} Ι _D μΑ	@0V, 1MHz C pF			
MSMF05LC	5L	5.0	6.0	12.0	1	9			
NOTES									

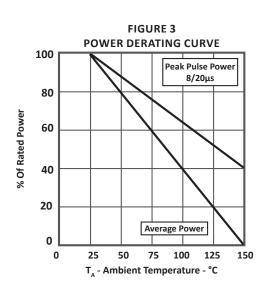
NOTES

1. Pins 1, 3, 4 or 5 to pin 2.

TYPICAL DEVICE CHARACTERISTICS



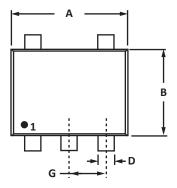


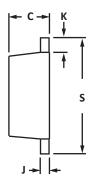




SOT-553 PACKAGE INFORMATION

OUTLINE DIMENSIONS							
DIM	MILLIM	IETERS	INCHES				
	MIN	MAX	MIN	MAX			
А	1.50	1.70	0.059	0.067			
В	1.10 1.30 0.04		0.043	0.051			
С	0.50	0.60	0.020	0.024			
D	0.17	0.27	0.007	0.011			
G	0.50 BSC		0.020) BSC			
J	0.08	0.18	0.003	0.007			
К	0.10	0.30	0.004	0.012			
S	1.50	1.70	0.059	0.067			





NOTES

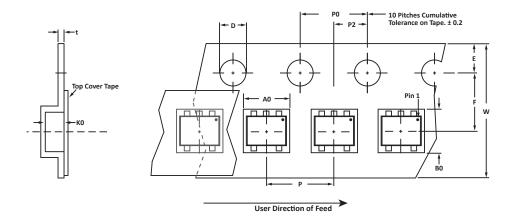
- 1. Controlling dimension: inches.
- 2. Dimensioning and tolerances per ANSI Y14.5M, 1985.
- 3. Dimensions are exclusive of mold flash and metal burrs.

PAD LAYOUT DIMENSIONS							
DIM	MILLIMETERS	INCHES					
	NOMINAL	NOMINAL					
А	1.40	0.055					
В	1.02	0.040					
С	0.30	0.012					
D	0.51	0.020					
E 0.51		0.020					
NOTES							

C + + + + A A A D B B

1. Controlling dimension: inches.

TAPE AND REEL



	SPECIFICATIONS												
	REEL DIA.	TAPE WIDTH	A0	В0	КО	D	E	F	W	P0	P2	Р	tmax
Г	178mm (7")	8mm	1.78 ± 0.05	1.78 ± 0.05	0.69 ± 0.05	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

NOTES

- 1. Dimensions are in millimeters.
- 2. Surface mount product is taped and reeled in accordance with EIA-481.
- 3. Suffix T7 = 7" Reel 3,000 pieces per 8mm tape.
- 4. Suffix T13 = 13" Reel 10,000 pieces per 8mm tape.
- 5. Marking on Part marking code (see page 2) and pin one defined by dot on package.

Package outline, pad layout and tape specifications per document number 06050.R3 3/11.

ORDERING INFORMATION								
BASE PART NUMBER LEADFREE SUFFIX TAPE SUFFIX QTY/REEL REEL SIZE								
MSMF05LC	-Р	-T7	3,000	7"	n/a			
MSMF05LC	-Р	-T13	10,000	13"	n/a			
This device is only available in a Lead-Free configuration.								



COMPANY INFORMATION

COMPANY PROFILE

In business more than 25 years, ProTek Devices™ is a privately held semiconductor company. The company offers a product line of overvoltage protection and overcurrent protection components. These include transient voltage suppressor array (TVS arrays) avalanche breakdown diode, steering diode TVS array and electronics SMD chip fuses. These components deliver circuit protection in electronic systems from numerous overvoltage and overcurrent events. They include lightning; electrostatic discharge (ESD); nuclear electromagnetic pulses (NEMP); inductive switching; and electromagnetic interference (EMI) / radio frequency interference (RFI). ProTek Devices also offers LED wafer die for ESD protection and related high frequency products. ProTek Devices is ISO 9001:2015 certified.

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