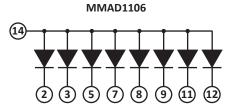
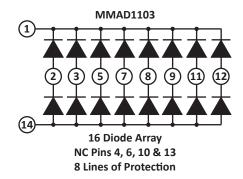
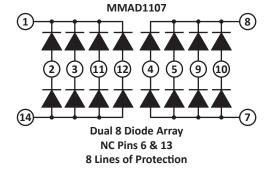
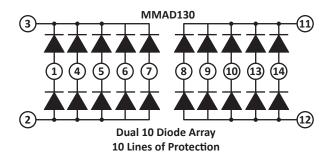
PIN IDENTIFICATION AND CONFIGURATION

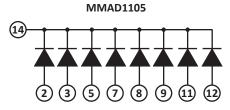


8 Diode Common Anode Array NC Pins 1, 4, 6, 10 & 13 8 Lines of Protection

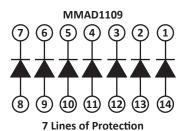








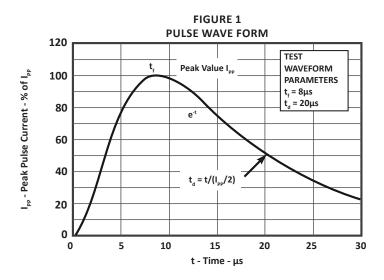
8 Diode Common Cathode Array NC Pins 1, 4, 6, 10 & 13 8 Lines of Protection



TYPICAL DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified								
PARAMETER SYMBOL VALUE								
Continuous Power Dissipation	P _{PK}	500	Milliwatts					
Continuous Forward Current (Single Diode)	I _P	400	mA					
Repetitive Peak Forward Current @ tp = 5μs, F = 50kHz	I _{FRM}	700	mA					
Operating Temperature	T _A	-55 to 150	°C					
Storage Temperature	T _{stg}	-55 to 150	°C					

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified								
PART NUMBER	REPETITIVE PEAK REVERSE VOLTAGE @ 10µA V RRM VOLTS	MAXIMUM FORWARD PEAK PULSE CURRENT @ 8/20µs I _{FM} AMPS	MAXIMUM FORWARD VOLTAGE @ 100mA V _F VOLTS	MAXIMUM REVERSE LEAKAGE CURRENT V _{RRM} @ 40V I _R μΑ	MAXIMUM CAPACITANCE (Per Diode) @4V, 1MHz C, pF			
MMAD1103	50	12	1.2	0.1	5			
MMAD1105	50	12	1.2	0.1	5			
MMAD1106	50	12	1.2	0.1	5			
MMAD1107	50	12	1.2	0.1	5			
MMAD1109	50	12	1.2	0.1	5			
MMAD130	50	12	1.2	0.1	5			





SO-14 PACKAGE INFORMATION

OUTLINE DIMENSIONS							
DIM	MILLIN	1ETERS	INCHES				
	MIN	MAX	MIN	MAX			
Α	8.55	8.75	0.337	0.344			
В	3.80	4.00	0.150	0.157			
С	1.35	1.75	0.054	0.068			
D	0.35	0.49	0.014	0.019			
F	0.40	1.25	0.016	0.049			
G	1.27	BSC	0.05	BSC			
J	0.18	0.25	0.007	0.009			
K	0.10	0.25	0.004	0.008			
Р	5.80	6.20	0.229	0.244			
R	0.25 0.50		0.010	0.019			

NOTES

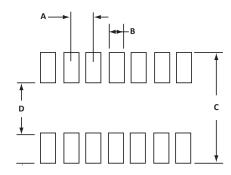
- 1. -T- = Seating plane and datum surface.
- 2. Dimensions "A" and "B" are datum.
- 3. Dimensions "A" and "B" do not include mold protrusion.
- 4. Maximum mold protrusion is 0.015" (0.380mm) per side.
- 5. Dimensioning and tolerances per ANSI Y14.5M, 1982.
- 6. Dimensions are exclusive of mold flash and metal burrs.

-A-
14 8 4
-B- P ⊕ 0.010" (0.25mm) ⋒ B ⋒ T PL
① 7 /FL
₩₩ЫЫЫЫ <u></u>
D -> -
G → ← C
0°-10°
(+) 0.010" (0.25mm) (M) T B (S) A (S) T B (S) A (S)

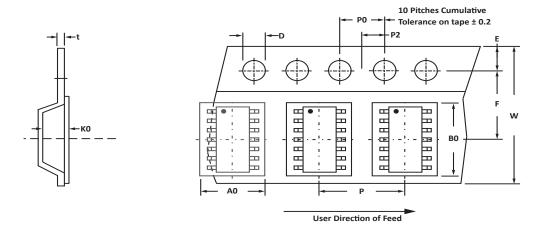
PAD LAYOUT DIMENSIONS							
DIM	MILLIM	1ETERS	INCHES				
	MIN	MAX	MIN	MAX			
А	1.14	1.40	0.045	0.055			
В	0.64	0.89	0.025	0.035			
С	6.22	-	0.245	-			
D	3.94	4.17	0.155	0.165			
E	1.02	1.27	0.040	0.050			

NOTES

1. Controlling dimension: inches.



TAPE AND REEL



SPECIFICATIONS												
REEL DIA.	TAPE WIDTH	A0	В0	ко	D	E	F	w	P0	P2	Р	tmax
178mm (7")	16mm	6.70 ± 0.10	9.8 ± 0.10	2.10 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	16.00 ± 0.30	4.00 ± 0.12	2.00 ± 0.10	8.00 ± 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 1,000 pieces per 16mm tape.
- 4. Suffix T13 = 13" Reel 2,500 pieces per 16mm tape.
- 5. Bulk product shipped in tubes of 55 pieces per tube.
- 6. Marking on Part part number, date code, logo and pin one defined by dot on top of package.

ORDERING INFORMATION								
BASE PART NUMBER (xx = Voltage)	I LEADEREE SUEEIX I TAPE SUEEIX I OTY/REEL I REEL SIZE I TUBE OTY							
MMADxxxx	-LF	-T7	1,000	7"	55			
MMADxxxx -LF -T13 2,500 13" 55								
This device is only available in a Lead-Free configuration.								

05136.R14 5/18 Page 5 ISO 9001: 2015 CERTIFIED

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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05136.R14 5/18 Page 6 ISO 9001: 2015 CERTIFIED