

multicomp



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SPC-PD08.DWG

REVISIONS

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECK'D	DATE	APPR'D	DATE
1935	A	RELEASED	EO	08/20/06	JN	04/25/08	JN	04/25/08

Package AM

0.370[9.4]
0.359[8.6]
0.217[5.5]
0.197[5.0]

1.2[30.5]MIN
1.0[25.4]MIN
0.031[0.8]
0.028[0.7]

0.220[5.6]
0.181[4.6]
0.220[5.6]
0.181[4.6]

- FEATURES:**
- Ratings to 1000V PRV
 - Surge overload rating: 50 Amperes peak
 - Ideal for printed circuit board
 - Reliable low cost construction utilizing molded plastic technique
 - Mounting position: Any
- MECHANICAL DATA**
- Case: Reliable low cost construction utilizing molded plastic technique result in inexpensive product
 - Terminals: leads solderable per MIL-STD-202, Method 208
 - Polarity: Polarity symbols marking on body
 - Weight: 0.05 ounce, 1.3 grams

MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified. Resistive or inductive load. 60Hz. For capacitive load derate current by 20%

PARAMETER	SYMBOL	Multicomp P/N						UNITS
		MCAM150-RH	MCAM151-RH	MCAM152-RH	MCAM154-RH	MCAM156-RH	MCAM158-RH	MCAM1510-RH
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	800	800	1000
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	800	800	1000
Maximum Average Forward Current $T_A=50^{\circ}C$	I_{AV}							1.5
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC Method)	I_{FSM}							50
r _{FL} Rating For Fusing (t<8.35ms)	r_{FL}							10
Maximum Forward Voltage Drop Per Bridge Element at 1.0A	V_F							1.0
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R							10 Φ $T_A=25^{\circ}C$ 1000 Φ $T_A=100^{\circ}C$
Typical Junction Capacitance (Note 1)	C_J							24
Typical Thermal Resistance Per Leg (Note 2)	R_{JA}							36
Typical Thermal Resistance Per Leg (Note 2)	R_{JL}							13
Operating and Storage Temperature Range	T_J							-55 to +125
Operating Temperature Range	T_{STG}							-55 to +125

Notes:

- 1– Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC
- 2– Thermal Resistance form junction to Ambient and from junction to lead mounted P.C.B. with D.47x0.47 [12x12] copper pads.

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED,

DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:	DRAWING TITLE:	
EKLAS ODISH	09/20/06	1.5 Ampere Silicon Miniature Single-Phase Bridges	
CHECKED BY:	DATE:	SIZE	DWG. NO.
Jason Nash	04/25/08	A	TA-801
APPROVED BY:	DATE:	SCALE:	NTS
Jason Nash	04/25/08		

ELECTRONIC FILE

TA-801.DWG

SHEET: 1 OF 2