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Designer's Data Sheet

Part Number / Ordering Information 1/

SPA498-02

Screening^{2/}

= Not Screened TX = TX Level TXV = TXV Level S = S Level

SPA498-02

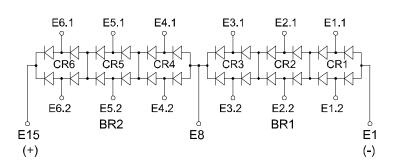
1 AMP **HIGH VOLTAGE** RECTIFIER BRIDGE STACK 6000 Volts

Features:

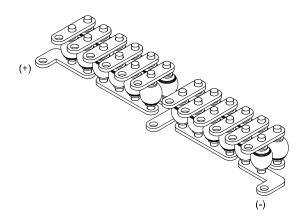
- Aerospace high voltage power supply applications
- High blocking voltage 6 kV minimum
- Low mechanical stress design
- TX, TXV, and Space level screening available
- Consult factory for:
 - Higher blocking voltages
 - Faster switching speeds
 - Other electrical configurations

MAXIMUM RATINGS				
CHARACTERISTIC		SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage	Bridge BR1 Bridge BR2	V _R	3000 3000	V
Average Rectified Forward Current (Non-repetitive, t = 8.3 ms Pulse)		lo	1	Α
Peak Surge Current (Non-repetitive, t = 8.3 ms Pulse, T _A = 25°C)		I _{FSM}	25	Α
Operating and Storage Temperature		T _{op} & T _{stg}	-65 to +150	°C
Maximum Thermal Resistance Junction to Tab		R _{θJT}	2.5	°C/W

ELECTRICAL SCHEMATIC



ASPM



Notes:

- 1/ For ordering information, price, operating curves, and availability, contact factory.
- 2/ Screening based on MIL-PRF-19500. Screening flows available on request.



SPA498-02

ELECTRICAL CHARACTERISTICS, @ TA = 25 °C (unless otherwise specified)							
PARAMETER, per each Bridge (CR1-CR6) Leg	SYMBOL	MIN	TYP	MAX	UNIT		
Instantaneous Forward Voltage Drop (I _F = 1.0 A, 300 – 500 µsec pulse)	V _{F1}	-	-	1.9	V		
		-	-	5.0 500	μΑ		
Reverse Recovery Time (I _F = 0.5 A, I _R = 1.0 A, I _{RR} = 0.25 A)	t _{RR}	-	70	-	nsec		

