MP40,50S SERIES

40,50S IN-LINE BRIDGE RECTIFIER





FEATURES

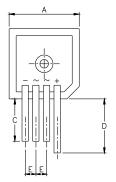
- Diffused Junction
- Low Forward Voltage Drop
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Designed for Saving Mounting Space
- UL Recognized File #E157705

MECHANICAL DATA

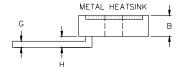
 Cass: Epoxy Cass With Heat Sink Internally Mounted in Bridge Encapsulation

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on BodyWeight: 30 grams (approx.)Mounting: Position: AnyMarking: Type Number



MP40,50S							
Dim	Min Max						
Α	28.40	28.70					
В	10.97	11.23					
С	13.90	-					
D	19.10	-					
Е	5.10	-					
G	1.20 Ø Typical						
Н	3.05	3.60					
All Dimensioas in mm							



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS $@T_A=25^{\circ}\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristics	Symbol	-00S	-01S	-02S	-04S	-06S	-08S	-10S	UNIT
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	٧
Average Rectifier Output Current 40 @ T _C =55°C 50	Io	40 50						A	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave 40 Superimposed on rated load 50 (JEDEC Mehtod)	I _{FSM}	400 400						A	
Forward Voltage Drop KBPC40 @I, = 20A (per element) KBPC50 @I, = 25A	V _{FM}	1.2					٧		
Peark Reverse Current at Rated @ TA=25°C DC Blocking Voltage (per element) @ TA=100°C	I _R	10 1.0				μA mA			
Typical Thermal Resistance (per element) (Note 2)		1.5						K/W	
RMS Isolation Voltage from Case to Lead		2500						٧	
Operating and Storage Temperature Range	T _J , T _{STG} -55 to +150					°C			

NOTE: 1. Thermal resistance junction to cass per element mounted on 8" x 8" x 25" thick AL plate.

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