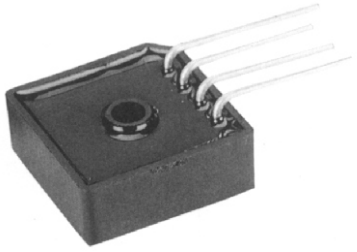
MP40,50S SERIES

40,50S IN-LINE BRIDGE RECTIFIER

CHENG-YI ELECTRONIC

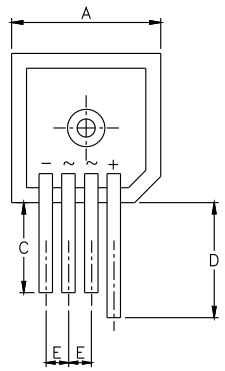


FEATURES

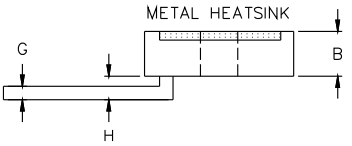
- Diffused Junction
- Low Forward Voltage Drop
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Designed for Saving Mounting Space
- UL Recognized File #E157705

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 Body
- Weight: 30 grams (approx.)
- Mounting: Position: Any
- Marking: Type Number



MP40,50S		
Dim	**Min**	**Max**
A	28.40	28.70
B	10.97	11.23
C	13.90	–
D	19.10	–
E	5.10	–
G	1.20 ∅ Typical	
H	3.05	3.60
All Dimensioas in mm		



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS @ T_A=25°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	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectifier Output Current 40 @ T_C=55°C 50	I_O	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_F=20A (per element) KBPC50 @I_F=25A	V_{FM}	1.2							V
Peark Reverse Current at Rated @ T_A=25°C DC Blocking Voltage (per element) @ T_A=100°C	I_R	10 1.0							μA mA
Typical Thermal Resistance (per element) (Note 2)	$R\theta JC$	1.5							K/W
RMS Isolation Voltage from Case to Lead	V_{ISO}	2500							V
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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RATING AND CHARACTERISTICS CURVES
MP40,50S SERIES

Fig. 1 Forward. Current Derating Curve

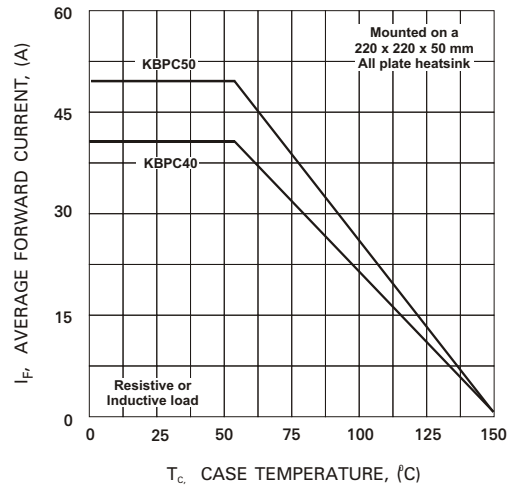

Fig. 2 Typical Forward Characteristics (per element)

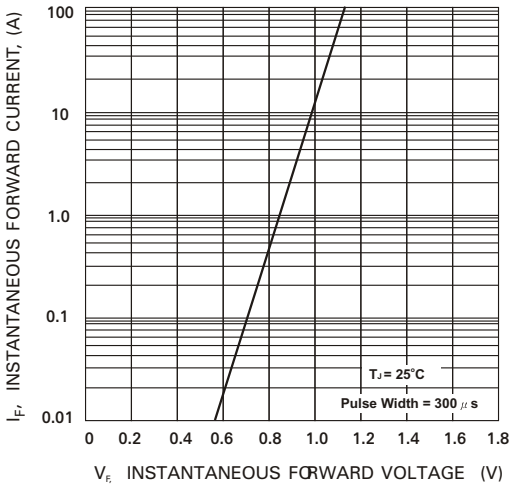

Fig. 3 Max Non-Repetitive Surge Current

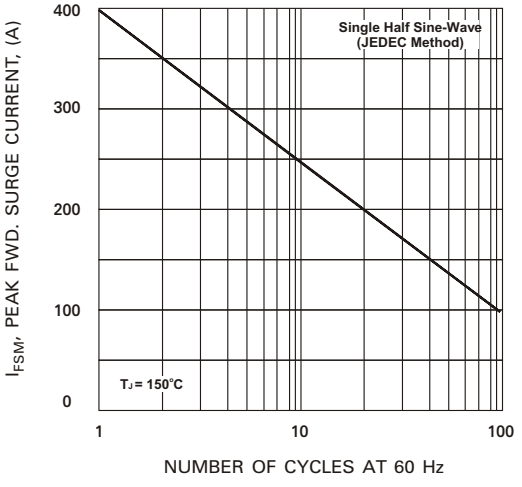

Fig. 4 Typical Junction Characteristics (per element)

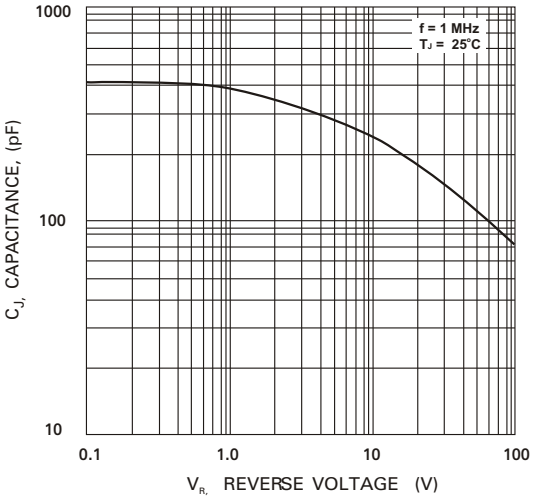

Fig. 5 Typical Reverse Characteristics (per element)