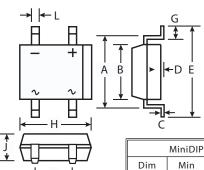


S40S THRU S500S

CURRENT 0.8 Amperes VOLTAGE 100 to 1000 Volts

Features

- · Glass Passivated Die Construction
- · Diffused Junction
- · Low Forward Voltage Drop, High Current Capability
- · Surge Overload Rating to 30A Peak
- · Designed for Printed Circuit Board Applications
- · Plastic Material UL Flammability Classification 94V-0



Mechanical Data

· Case: Molded Plastic

· Terminals : Solder Plated Leads,

Solderable per MIL-STD-202, Method 2026

Polarity: As Marked on Case
Approx. Weight: 0.125 grams
Mounting Position: Any
Marking: Type Number

MINIDIP							
Dim	Min	Max					
Α	5.43	5.75					
В	3.60	4.00					
C	0.15	0.35	5				
D	0.05	0.20					
Е		7.00					
G	0.70	1.10					
Н	4.50	4.90					
J	2.80	2.90					
K	2.50	2.70					
L	0.50	0.80					
All Dim	ensions	in mn	n				

Maximum Ratings And Electrical Characteristics

(Ratings at 25° ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

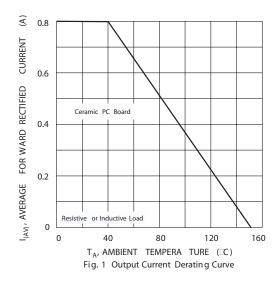
		Symbols	S40S	S80S	S125S	S250S	S380S	S500S	Units
Peak Repetitive Reverse voltage Working Peak Reverse voltage DC Blocking voltage		Vrmm Vrwm Vr	100	200	400	600	800	1000	Volts
RMS Reverse voltage		VRMS	70	140	280	420	560	700	Volts
Average Rectified Output Current	@ Ta=40℃	lo	0.8				Amp		
Non-Repetitive Peak Forward Surge 8.3ms single half-sine-wave superin on rated load (JEDEC method)		lfsm	30				Amp		
Forward voltage (per element)	@ IF=0.4 A	VFM	1.0				Volts		
Peak Reverse Current at Rated DC Blocking voltage (per element)	@ Ta=25℃ @ Ta=125℃	Irm	10 500					μ Α	
Typical Junction Capacitance per element (Note 1)		Cj	10			pF			
Typical Thermal Resistance, Junction to Ambient (Note 2)		R <i>⊕</i> JA	75			°C/W			
Operating and Storage Temperatur	e Range	Tj Tstg	-55 to +150		°C				

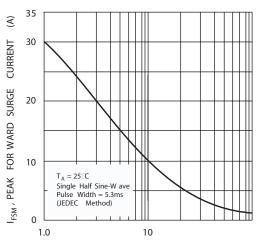
Notes

- (1) Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.
- (2) Thermal Resistance, junction to ambient, measured on PC board with 5.02mm (0.03mm thick) land areas.

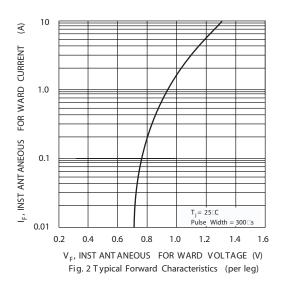


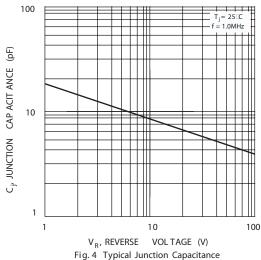
RATING AND CHARACTERISTIC CURVES S40S THRU S500S

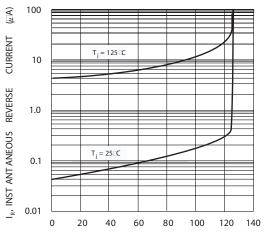




NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Peak Forward Surge Current (per leg)







PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics (per element)