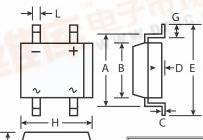


### **S40S THRU S500S**

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



# — K→

#### Mechanical Data

· Case : Molded Plastic

· Terminals : Solder Plated Leads,

Solderable per MIL-STD-202, Method 2026

Polarity: As Marked on CaseApprox. Weight: 0.125 gramsMounting Position: Any

· Marking : Type Number

MIIIIDII								
Dim	Min	Max						
Α	5.43	5.75						
В	3.60	4.00						
C	0.15	0.35						
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 Dimensions in mm								

MiniDIP

#### **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%)

	111	Symbols	S40S	S80S	S125S	S250S	S380S	S500S	Units
Peak Repetitive Reverse voltage Working Peak Reverse voltage DC Blocking voltage	E WW	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 WWW.DZS				Amp		
Forward voltage (per element)	@ IF=0.4 A	VFM		(13)	1	.0			Volts
Peak Reverse Current at Rated DC Blocking voltage (per element)	@ Ta=25°C @ Ta=125°C	IRM	10 500						μΑ
Typical Junction Capacitance per element (Note 1)	WW.	Cj			1	0			pF
Typical Thermal Resistance, Junction to Ambient (Note 2)		R <i>⊕</i> JA			7	<b>'</b> 5			°C/W
Operating and Storage Temperature Range Tj Tsto		Tj Tstg	-55 to +150						°C

Notes:

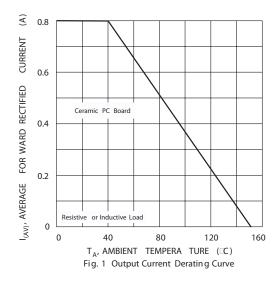
Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

The small Resistance, junction to ambient, measured on PC board with 5.02mm (0.03mm thick) land areas.





## RATING AND CHARACTERISTIC CURVES S40S THRU S500S



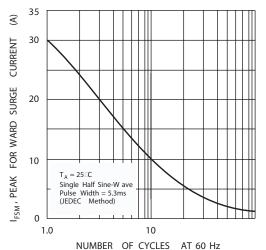
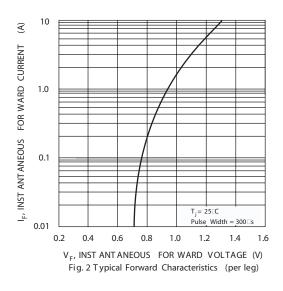
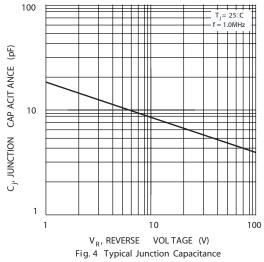
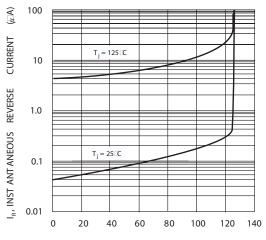


Fig. 3 Maximum Peak Forward Surge Current (per leg)







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

