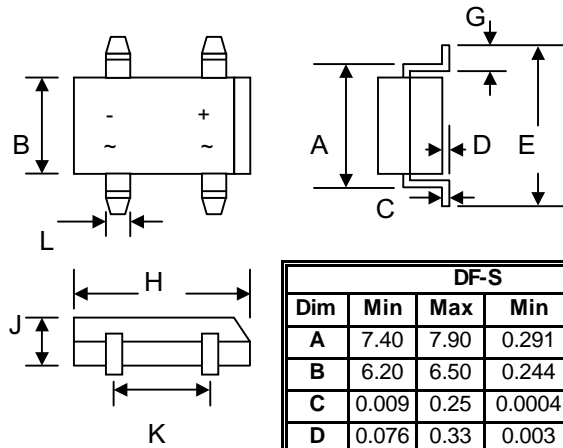


Data Sheet 1324 Rev.A

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material – UL Recognition Flammability Classification 94V-O
- UL Recognized File # E223064



Mechanical Data

- Case: Molded Plastic
 - Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
 - Polarity: As Marked on Case
 - Weight: 0.38 grams (approx.)
 - Mounting Position: Any
 - Marking: Type Number
- *Low profile models (J = 2.20~2.50mm) are available. Please consult factory.

DF-S				
Dim	Min	Max	Min	Max
A	7.40	7.90	0.291	0.311
B	6.20	6.50	0.244	0.256
C	0.009	0.25	0.0004	0.001
D	0.076	0.33	0.003	0.013
E	—	10.40	—	0.409
G	1.02	1.53	0.040	0.060
H	8.13	8.51	0.320	0.321
J*	3.20	3.40	0.126	0.134
K	5.0	5.20	0.197	0.205
L	1.0	1.20	0.039	0.047
	In mm		In inch	

Datasheet Directory

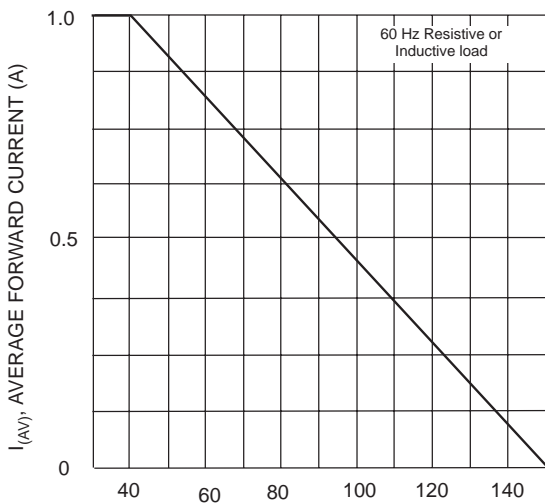
Maximum Ratings and Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

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

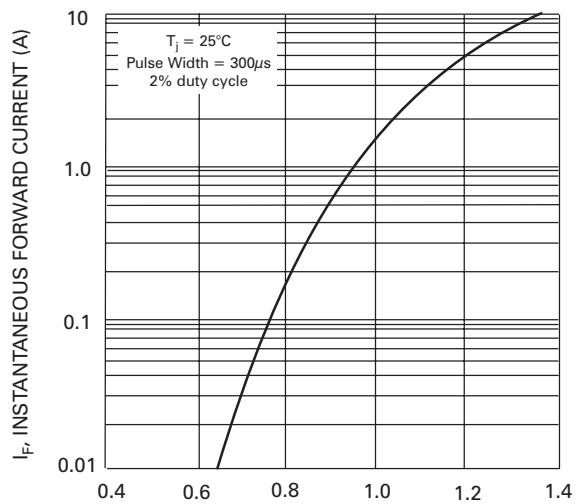
Characteristic	Symbol	DF 005S	DF 01S	DF 02S	DF 04S	DF 06S	DF 08S	DF 10S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @ $T_A = 40^{\circ}\text{C}$	I_o	1.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30							A
Forward Voltage per element @ $I_F = 1.0\text{A}$	V_{FM}	1.1							V
Peak Reverse Current @ $T_A = 25^{\circ}\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^{\circ}\text{C}$	I_{RM}	10 500							μA
Typical Junction Capacitance per element (Note 1)	C_j	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	110							K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150							$^{\circ}\text{C}$

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Thermal resistance junction to ambient mounted on PC board with 5.0mm^2 (0.03mm thick) land areas.

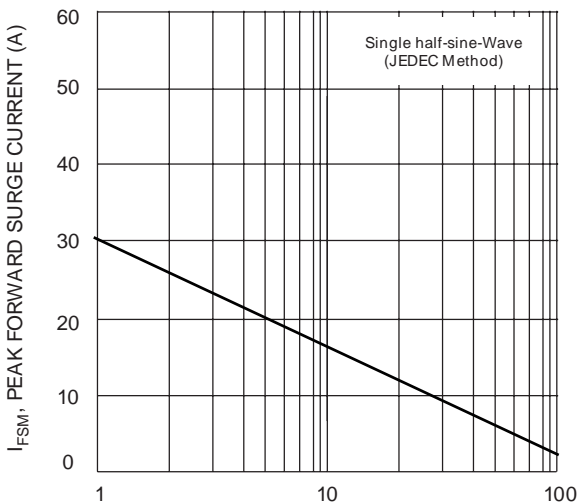
Data Sheet 1324 Rev.A



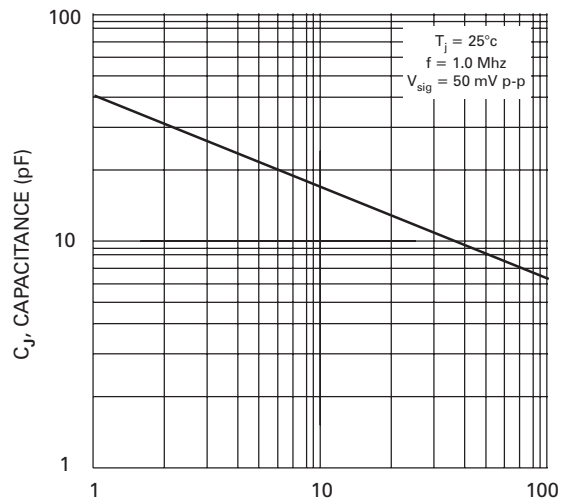
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Output Current Derating Curve



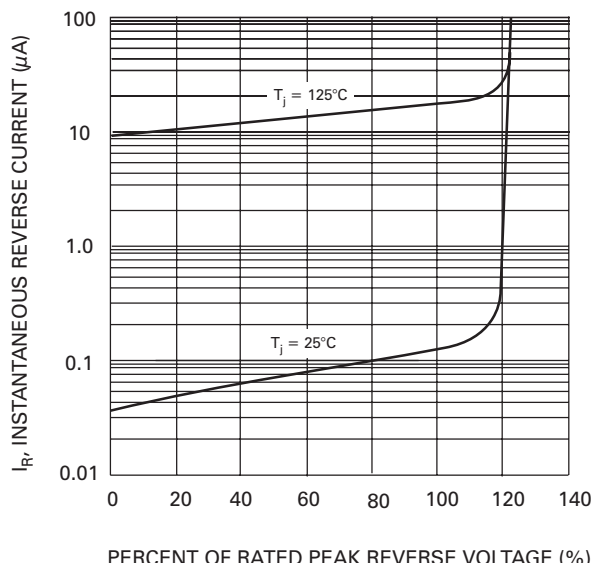
V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typ Forward Characteristics (per element)



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Max Non-Repetitive Peak Forward Surge Current



V_R , REVERSE VOLTAGE (V)
Fig. 4 Typ Junction Capacitance (per element)



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