

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

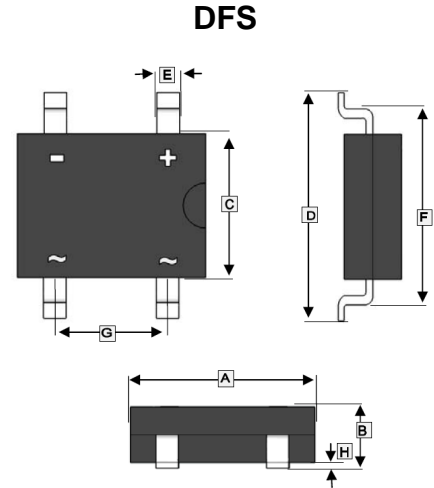
- Low forward voltage drop, high current capability
- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive products
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Polarity: As marked on Body
- Weight: 0.02 ounces, 0.38 grams
- Mounting position: Any

PACKAGE INFORMATION

Package	MPQ	Leader Size
DFS	1K	13 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	8.0	8.2	E	0.9	1.2
B	2.2	2.6	F	7.8	8.5
C	6.2	6.2	G	5.0	5.2
D	10.0	10.3	H	0.2	0.4

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Ratings							Unit
			DF 2005S	DF 201S	DF 202S	DF 204S	DF 206S	DF 208S	DF 210S	
Peak Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage		V _{RMS}	35	70	140	280	420	560	700	V
DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =40°C		I _(AV)	2.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)		I _{FSM}	60							A
Maximum Forward Voltage @ 2 A DC		V _F	1.1							V
Maximum DC Reverse Current	T _J =25°C	I _R	10							μA
	T _J =125°C		500							
I ² t Rating for Fusing (t<8.3ms)		I ² t	10.4							A ² s
Typical Junction Capacitance Per Element ¹		C _J	25							pF
Typical Thermal Resistance ²		R _{θJA}	40							°C /W
Operating and Storage temperature range		T _J , T _{STG}	-55 ~ 150							°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC
2. Thermal resistance from junction to ambient mounted on P.C.B. with 0.5*0.5"(13*13mm) copper pads.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

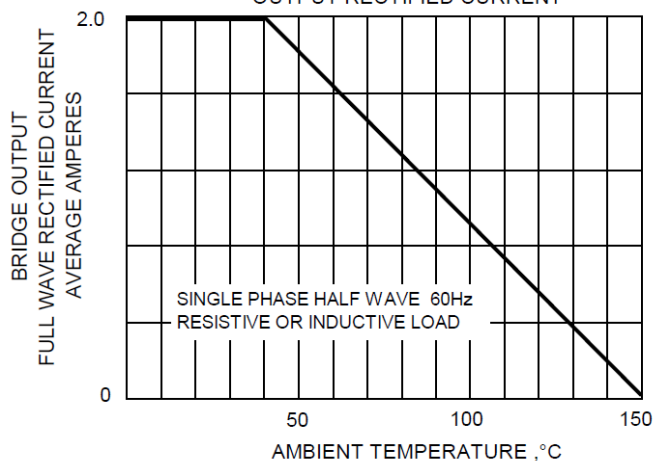


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

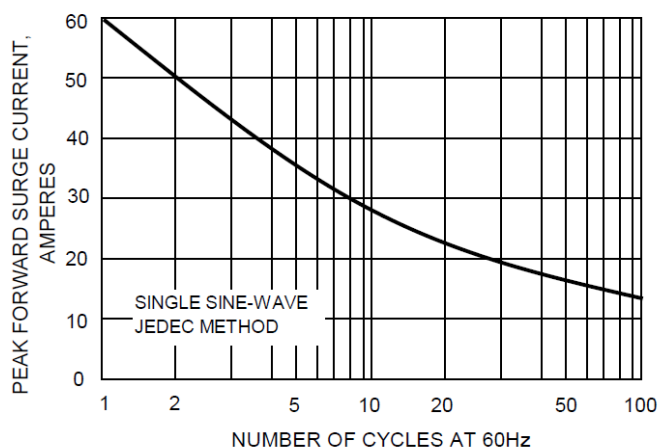


FIG.3-TYPICAL JUNCTION CAPACITANCE

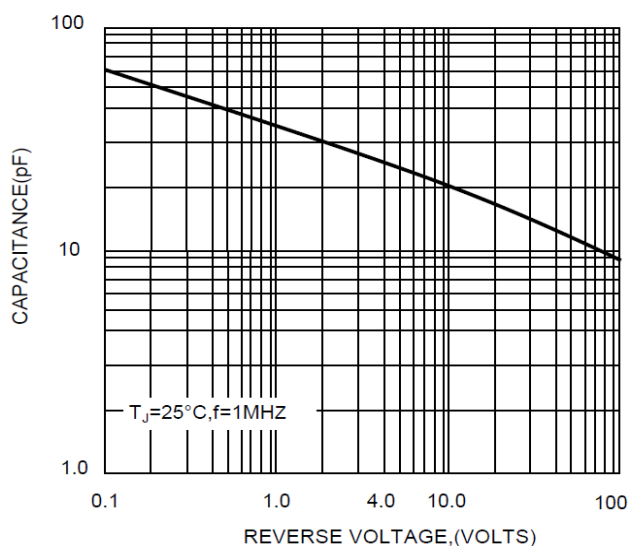


FIG.4-TYPICAL FORWARD CHARACTERISTICS

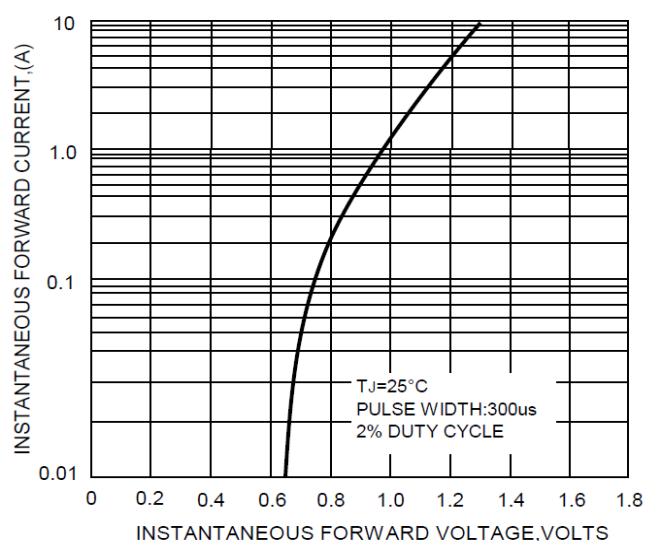


FIG.5-TYPICAL REVERSE CHARACTERISTICS

