

DF005S thru DF10S

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

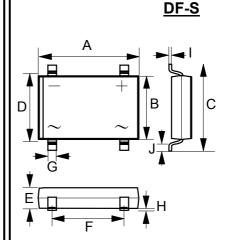
REVERSE VOLTAGE – 50 to 1000 Volts FORWARD CURRENT – 1.0 Ampere

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- · Low forward voltage drop high current capability
- Reliable low cost construction utilizing molded plastic technique
- UL recognized file # E95060

MECHANICAL DATA

- Case Material: molding compound, UL flammability classification 94V-0
- · Polarity: As marked on the body
- Mounting Position: Any
- Weight: 360mg (Approximate)



DF-S					
DIM	MIN MA				
Α	8.20	8.50			
В	6.20	6.50			
С	9.80	10.30			
D	7.40	7.90			
Е	2.40	2.60			
F	5.00	5.20			
G	1.00				
Н	.076	.330			
ı	.220	.300			
J	1.02	1.53			
All dimension in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	UNIT
Device marking code	Note	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average rectified output current per device @T _A = 40°C	I _(AV)	1.0					Α		
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I _{FSM}	50					Α		
Peak forward surge current 1ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I _{FSM}	100					Α		
I ² t rating for fusing (t < 8.3ms)	l²t	10.4				A ² S			
Operating and storage temperature range	T _J ,T _{STG}	-55 to +150					°C		

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CO	NDITION	SYMBOL	MAX.	UNIT
Forward voltage	I _F = 1.0A	T _J = 25°C	V_{F}	1.1	V
Leakage current	V _R at rated	T _J = 25°C T _J = 125°C	I _R	10 500	uA
Typical junction capacita	INCE (Note 1)		CJ	25	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
	RthJ _A	40	
Typical thermal resistance (Note 2)	RthJ _c	8	°C/W
	RthJ∟	20	

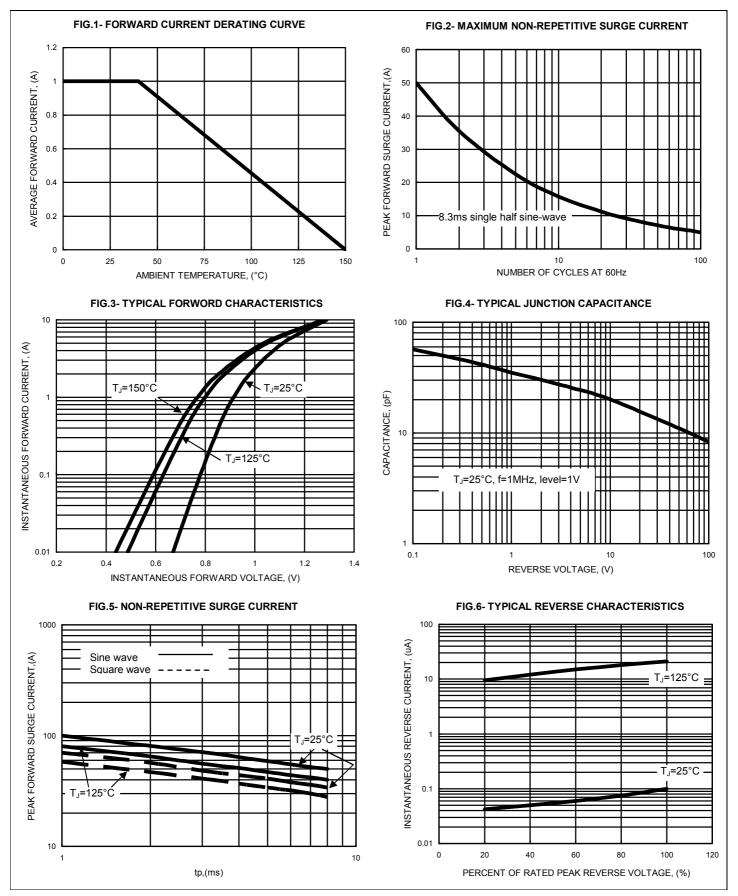
(1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC

(2) Thermal resistance junction to ambient, case and lead in accordance with JESD-51. Unit mounted on P.C.B with 0.5 x 0.5" (13 x 13 mm) copper pad per pin.

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RATING AND CHARACTERISTIC CURVES DF005S thru DF10S







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