

DF04SH thru DF10SH

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE – 400 to 1000 Volts FORWARD CURRENT – 1.0 Ampere

DF-S

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	MAX		
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		
I	.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	DF04SH	DF06SH	DF08SH	DF10SH	UNIT
Device marking code	Note	DF04SH	DF06SH	DF08SH	DF10SH	
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	800	1000	V
Maximum DC blocking voltage	V _{DC}	400	600	800	1000	٧
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}	60			Α	
I ² t rating for fusing (t < 8.3ms)	I²t	10.4			A ² S	
Operating and storage temperature range	T _J ,T _{STG}	-55 to +150			°C	

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		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 capacitance (Note 1)		CJ	25	pF	

THERMAL CHARACTERISTICS

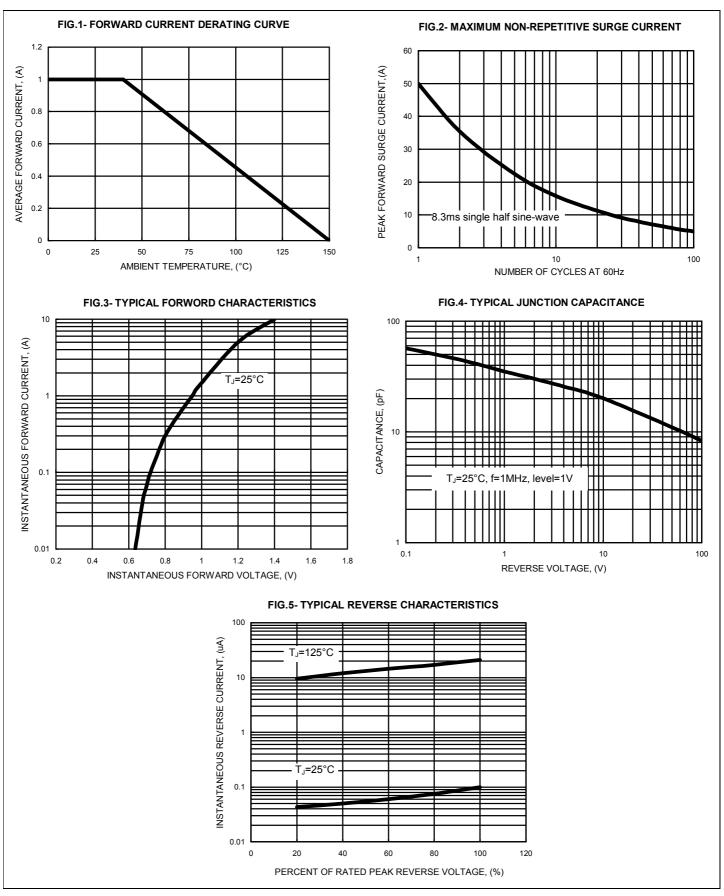
PARAMETER	SYMBOL	TYP.		UNIT
Typical thermal resistance (Note 2)	RthJ _A	40		°C/W
Note:			REV 3 APR -2015 KRI	1406

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

(2) Thermal resistance junction to ambient 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. REV. 3, APR.-2015, KBDA06

RATING AND CHARACTERISTIC CURVES DF04SH thru DF10SH







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