

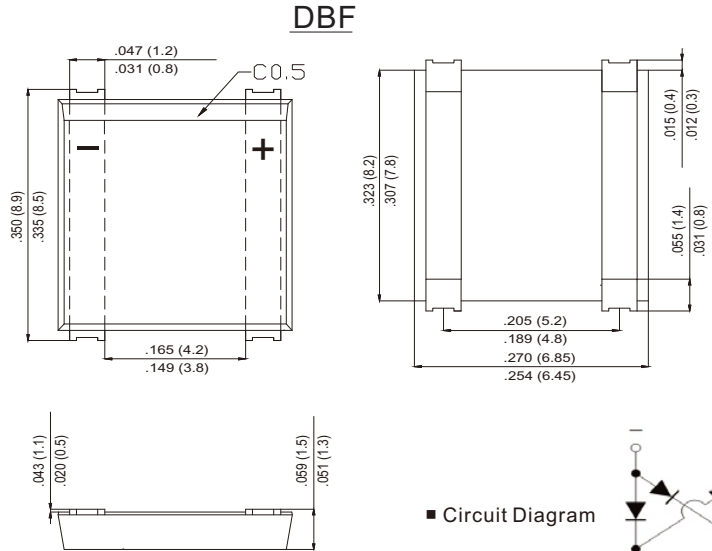
■ Features

- Glass passivated die construction
- Low leakage
- High current capability
- Ideal for printed circuit board
- Design for surface mount application
- Suffix "G" indicates Halogen free parts, ex DBF31G
- Plastic Material-UL Flammability 94V-0

■ Mechanical data

- Case : DBF, Molded plastic.
- Terminals : plated leads solderable per MIL-STD-202, Method 208.
- Polarity : as marked on case.
- Mounting position: Any.
- Marking: type number.

■ Outline



■ Maximum ratings and electrical characteristics

■ Dimensions in inches and (millimeters)

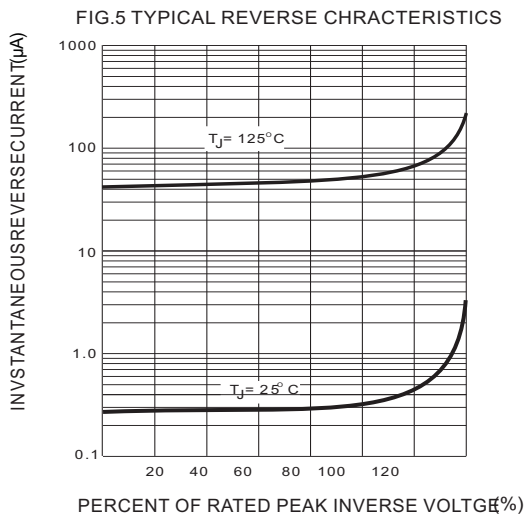
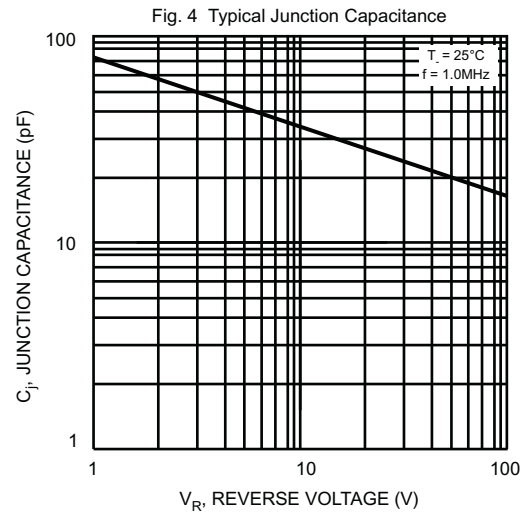
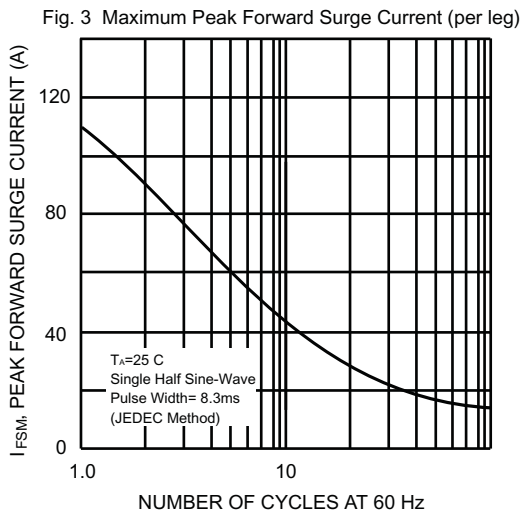
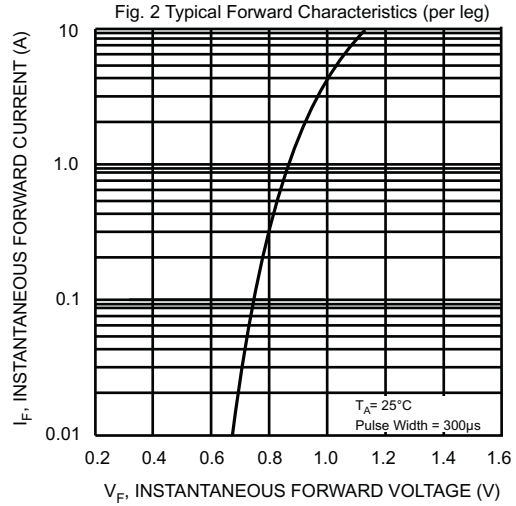
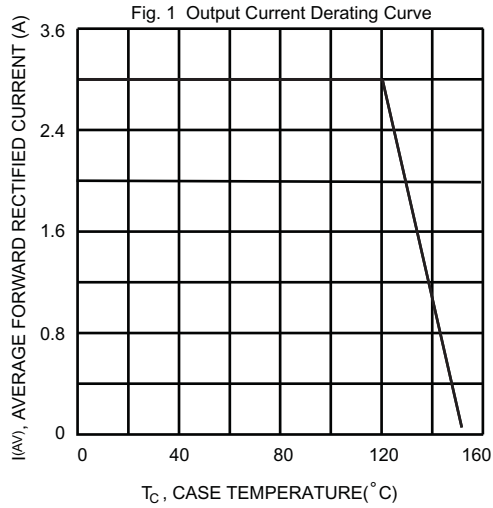
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Parameter	Conditions	Symbol	Value	UNIT
Average rectified output current	T <sub>c</sub> = 100°C (Note:1)	IF(AV)	3	A
Rating for fusing (t<8.3ms)		I <sup>2</sup> t	50.215	A <sup>2</sup> s
Non-Repetitive Peak Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I <sub>FSM</sub>	110	A
Peak Reverse current at rated DC blocking voltage	T <sub>A</sub> = 25°C	I <sub>R</sub>	5	uA
	T <sub>A</sub> = 125°C		500	
Typical Thermal resistance per leg		R <sub>BJA</sub>	70	°C/W
		R <sub>BJC</sub>	15	
Typical Junction Capacitance per leg(Note 2)		C <sub>J</sub>	45	pF
Operating and Storage temperature Range		T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

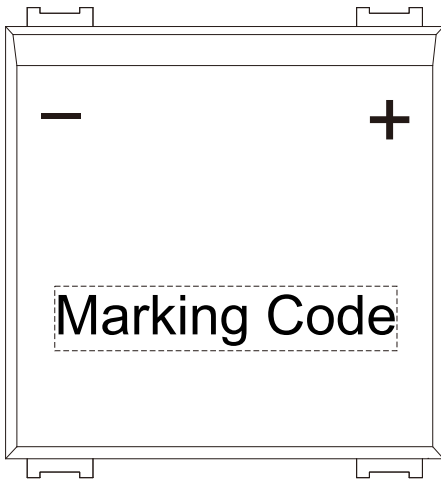
Symbol	Max. repetitive peak reverse voltage V <sub>RRM</sub> (V)	Max. Working peak reverse voltage V <sub>RWM</sub> (V)	Max. DC blocking voltage V <sub>DC</sub> (V)	Max. RMS voltage V <sub>RMS</sub> (V)	forward voltage per element @IF=3A V <sub>FM</sub> (V)
DBF31	100	100	100	70	1.0
DBF32	200	200	200	140	
DBF34	400	400	400	280	
DBF36	600	600	600	420	
DBF38	800	800	800	560	
DBF310	1000	1000	1000	700	

Note: 1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.  
 Note: 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

Rating and characteristic curves



■ Marking Information



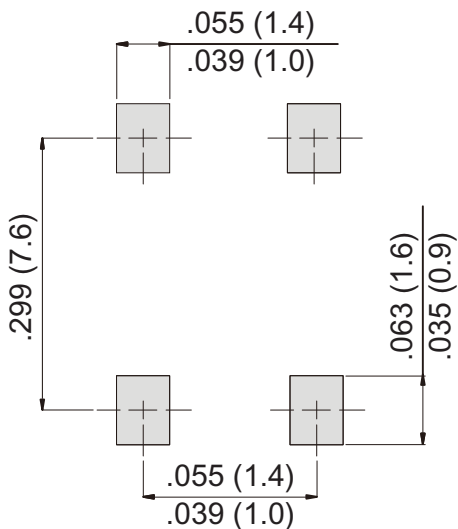
	Part number	Marking Code
Halogen	DBF31	DBF31
	DBF32	DBF32
	DBF34	DBF34
	DBF36	DBF36
	DBF38	DBF38
	DBF310	DBF310
Halogen free	DBF31G	DBF31H
	DBF32G	DBF32H
	DBF34G	DBF34H
	DBF36G	DBF36H
	DBF38G	DBF38H
	DBF310G	DBF310H

■ Ordering/Packing information

Part number		Case	Q'TY/Reel (PCS)	Q'TY/Box (PCS)	Q'TY/Carton (PCS)
Halogen	DBF31	DBF	3,000	6,000	48,000
Halogen free	DBF310G				

Notes : 1. For packaging details please reference our website at <http://www.citcorp.com.tw/tchinese/products/index.php>

■ DBF foot print



Dimensions in inches and (millimeters)

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