

DB

FrelTec  
Bridge Rectifier

FrelTec

Mathildenstr. 10A  
82319 Starnberg  
Germany

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DB

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SPECIFICATION

683	DB15_XXXXX	DBXX	Y0F
Type	Type	Package	Packing
683: Bridge Rectifier	DB15_	DB	Y0F: tape in Tube for 50 pc

All products according to RoHS (2015/863/EU)

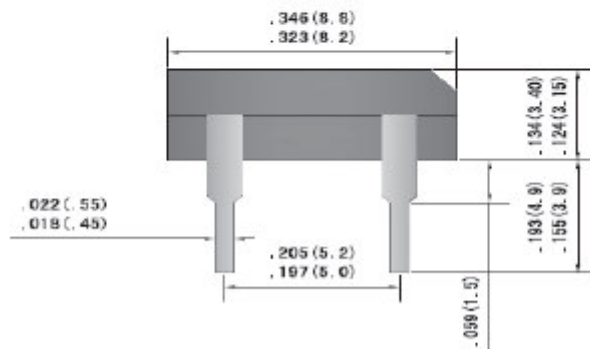
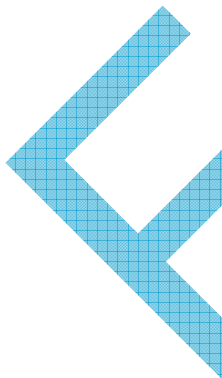
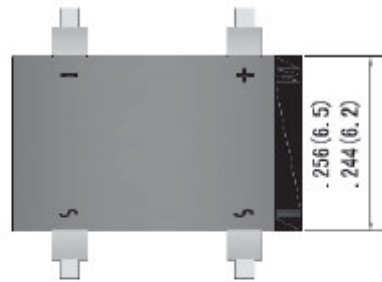
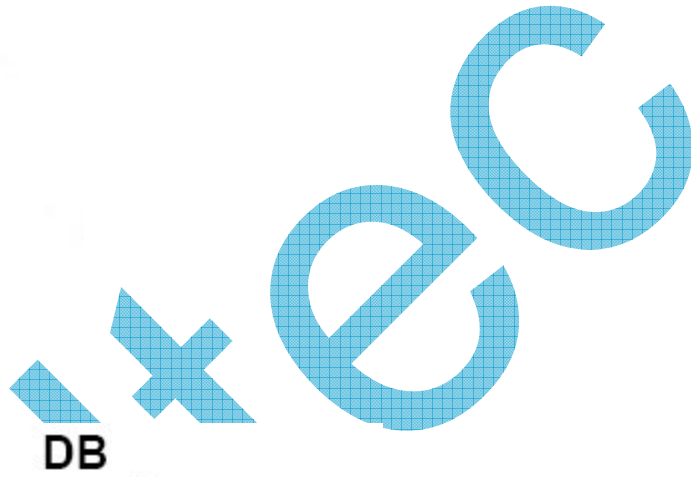
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**PACKAGE OUTLINE**



Unit: inch (mm)

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### Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified,

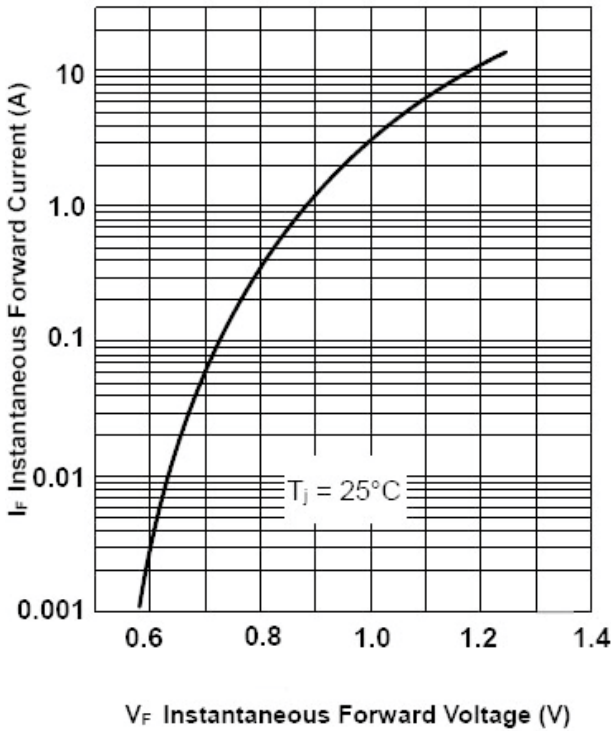
Parameter	Symbols	DB1	DB1	DB1	DB1	DB1	DB1	DB1	Unit
		51	52	53	54	55	56	57	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
TC = 100°C Maximum average forward rectified current	IF(AV)	1,5							A
Peak forward surge current 8,3 ms single half sine-wave	IFSM	50							A
Typical thermal resistance	RθJA	40							°C /W
Operating junction and storage temperature range	Tj, TSTG	-55--- +150							°C

### Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified

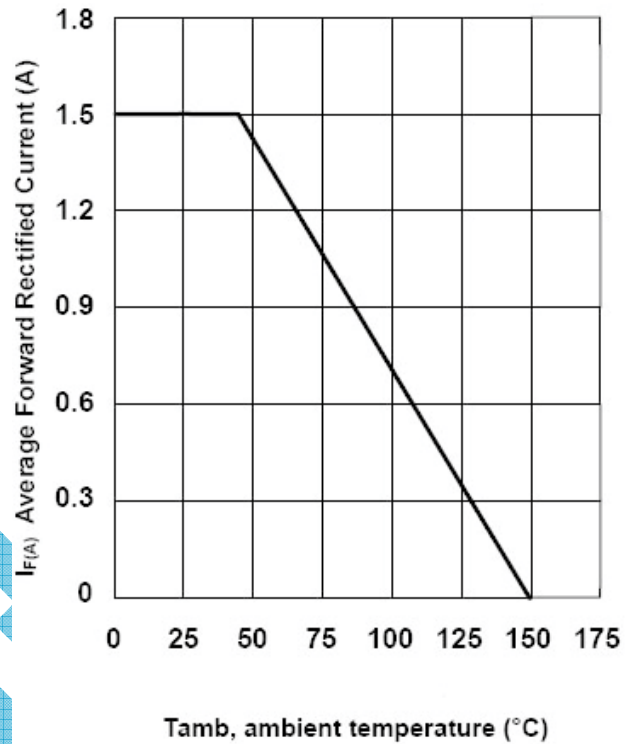
	Symbol	DB1	DB1	DB1	DB1	DB1	DB1	DB1	Unit
		51	52	53	54	55	56	57	
IF = 1,5 A Maximum forward voltage	VF	1,1							V
TA = 25°C Maximum reverse current TA = 125°C	IR	10 500							µA
VR = 4,0V, f = 1MHz Type junction capacitance	Cj	40							pF

Characteristics(Typical)

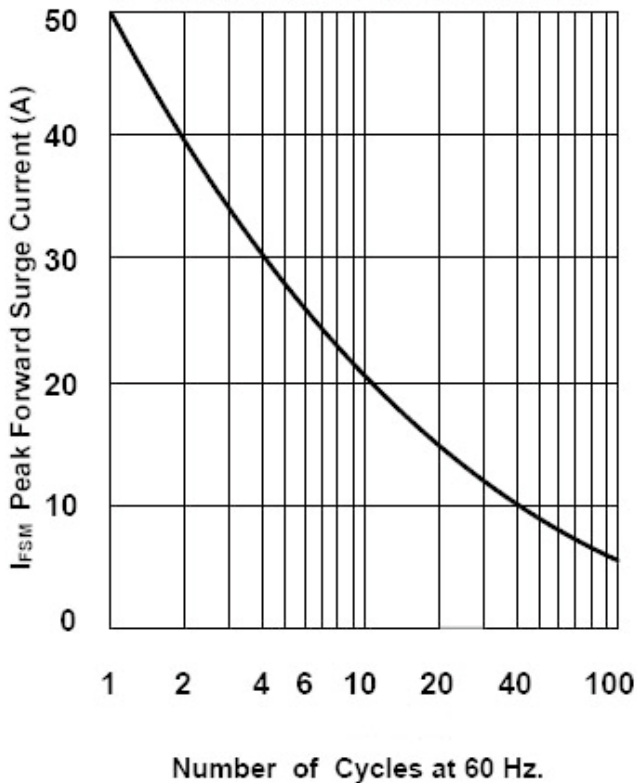
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE

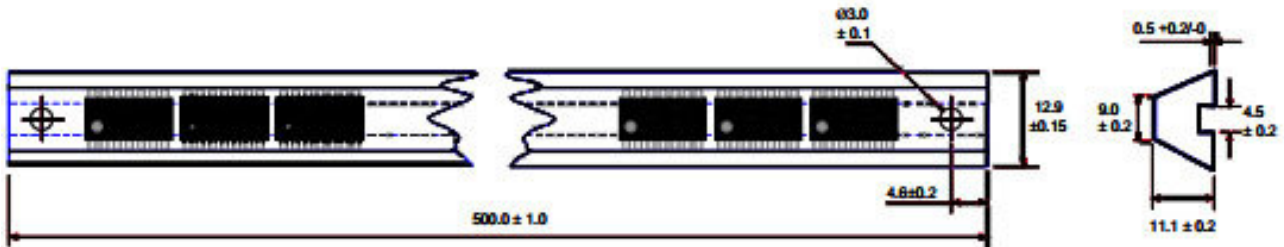


MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



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SPECIFICATION  
**TUBE Package**

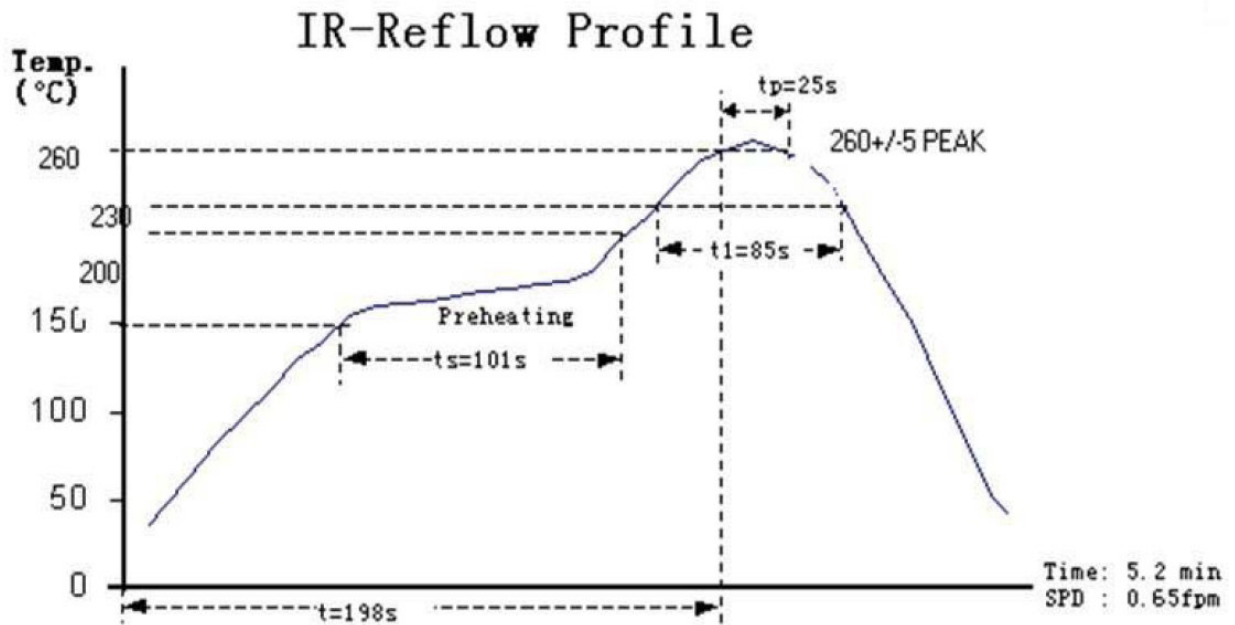


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**Stock period**

The performance of these products, including the solderability, is guaranteed for 12 month, provided that they remain packed as they were when delivered and stored at a temperature of 0-35°C and a relative humidity 35-75%RH

Lead Free Reflow Soldering Profile



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