

DB

FrelTec
Bridge Rectifier

FrelTec

Mathildenstr. 10A
82319 Starnberg
Germany

Bridge Rectifier
DB

FrelTec

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SPECIFICATION

683	DB10_XXXXX	DBXX	Y0F
Type	Type	Package	Packing
683: Bridge Rectifier	DB10_	DB	Y0F: tape in Tube for 50 pc

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

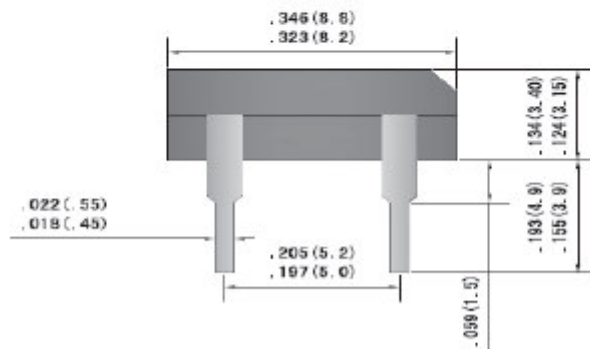
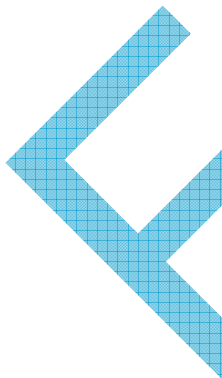
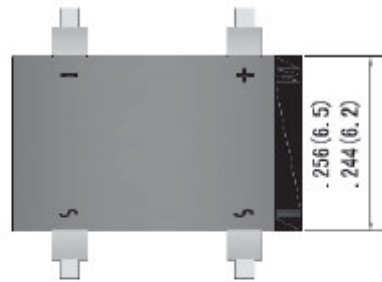
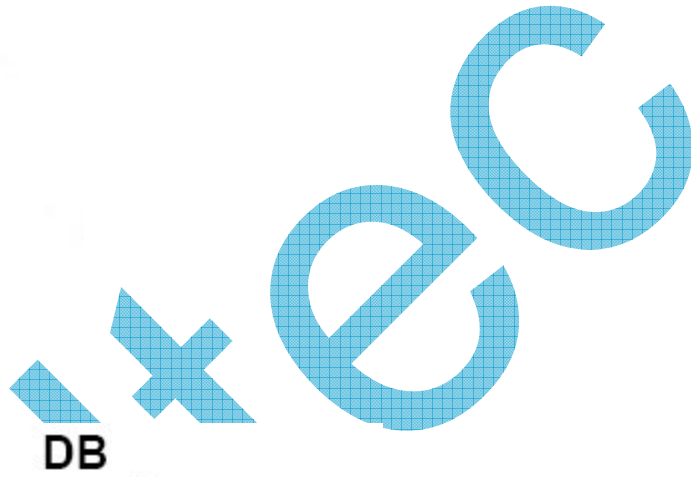


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DB10_

PACKAGE OUTLINE



Unit: inch (mm)

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Maximum Ratings & Characteristics
Ratings at 25°C ambient temperature unless otherwise specified,

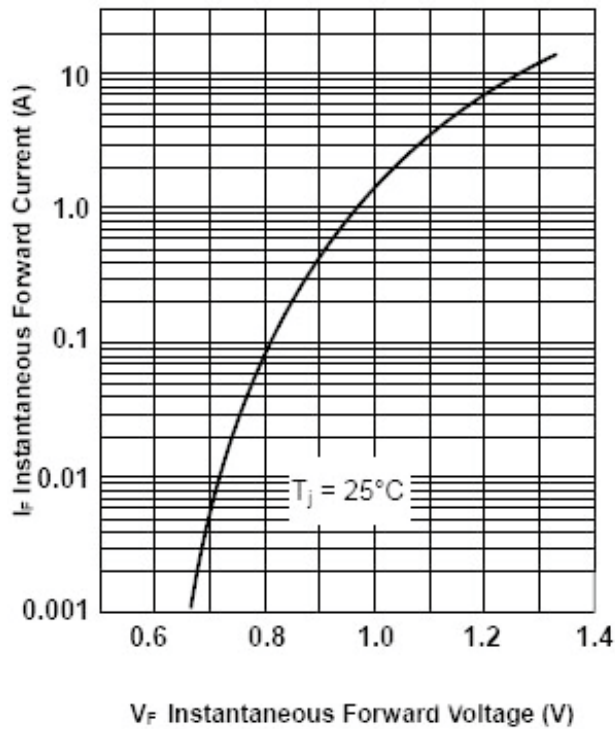
Parameter	Symbols	DB1	DB1	DB1	DB1	DB1	DB1	DB1	Unit
		01	02	03	04	05	06	07	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
TC =100°C Maximum average forward rectified current	IF(AV)	1,0							A
Peak forward surge current 8,3 ms single half sine-wave	IFSM	30							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

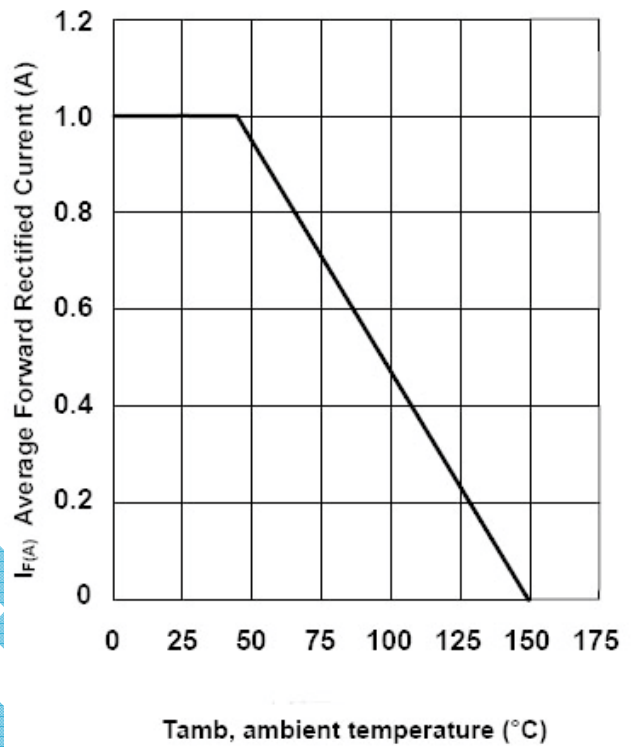
Parameter	Symbol	DB1	DB1	DB1	DB1	DB1	DB1	DB1	Unit
		01	02	03	04	05	06	07	
IF = 1,0 A Maximum forward voltage	VF	1,1							V
TA= 25°C Maximum reverse current TA = 125°C	IR	10 500							µA
VR = 4,0V, f = 1MHz Type junction capacitance	Cj	40							pF

Characteristics(Typical)

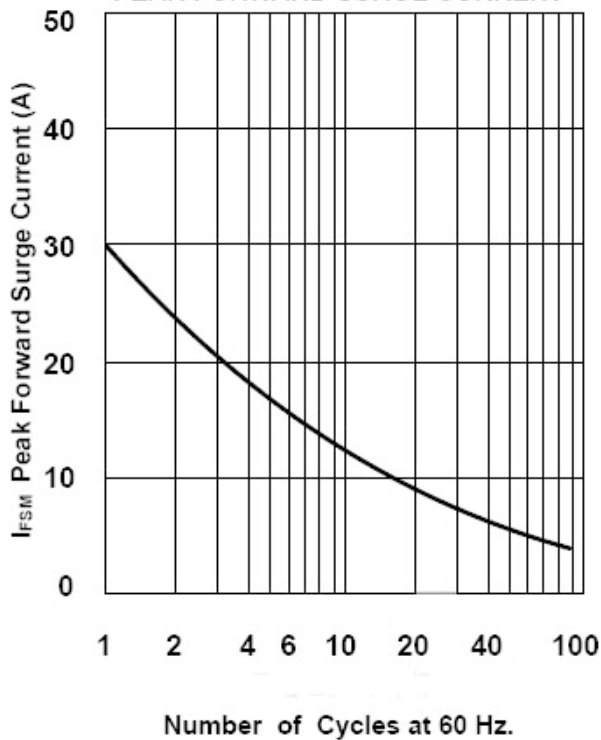
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE

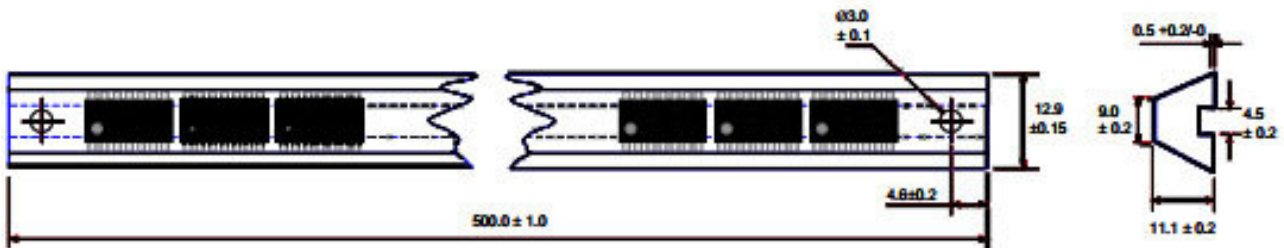


MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



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SPECIFICATION

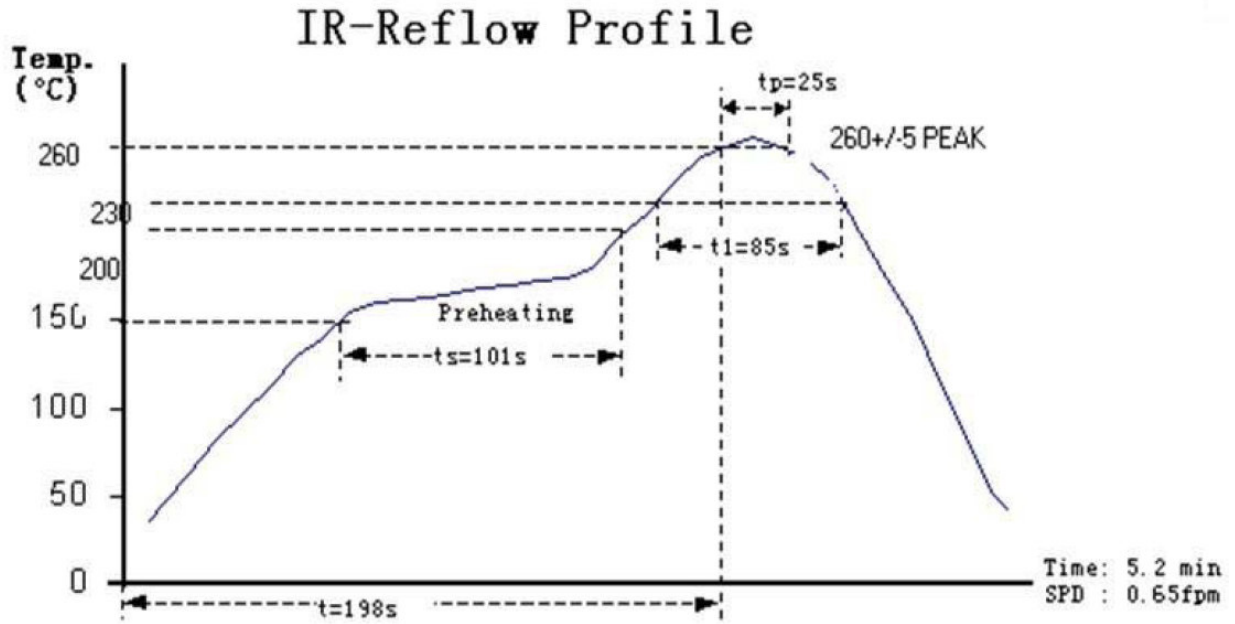
TUBE Package

FrelTec

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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