

FrelTec

Mathildenstr. 10A
82319 Starnberg
Germany

Ultra-fast Recover Rectifier TO-220

TO-220

SPECIFICATION

683	DFR10A__xx	T220	Y0F
Type	Type	Package	Packing
683: Ultra-fast Recover Rectifier	DFR10A__	TO-220	Y0F: tape in Tube for 50 pc

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

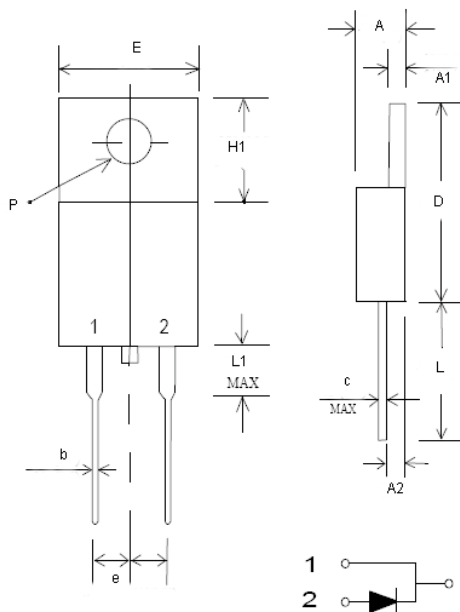
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Ultra-fast Recover Rectifier

DFR10A__

PACKAGE OUTLINE



DIM	MILLIMETERS	
	MIN	MAX
A	3,5	4,8
A1	1,14	1,4
A2	2,03	2,9
b	0,5	0,7
c		0,65
D	14,22	15,88
e	2,29	2,79
E	9,65	10,67
H1	5,84	6,85
L	12,7	14,7
L1	2,7	3,3
ØP		3,5

NOTE: Above package outline conforms to JEDEC TO-220AB

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Ultra-fast Recover Rectifier

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

	Symbols	DFR10A2 0	DFR10A3 0	DFR10A4 0	DFR10A6 0	Unit
Maximum repetitive peak reverse voltage	VRRM	200	300	400	600	V
Maximum RMS voltage	VRMS	140	210	280	420	V
Maximum DC blocking voltage	VDC	200	300	400	600	V
Maximum average forward rectified current	IF(AV)	10				A
Peak forward surge current 8,3 ms single half sine-wave	IFSM	100				A
Typical thermal resistance	R θ JC	4,0				°C/W
Operating junction and storage temperature range	Tj, TSTG	-55---+150				°C

Electrical Characteristics

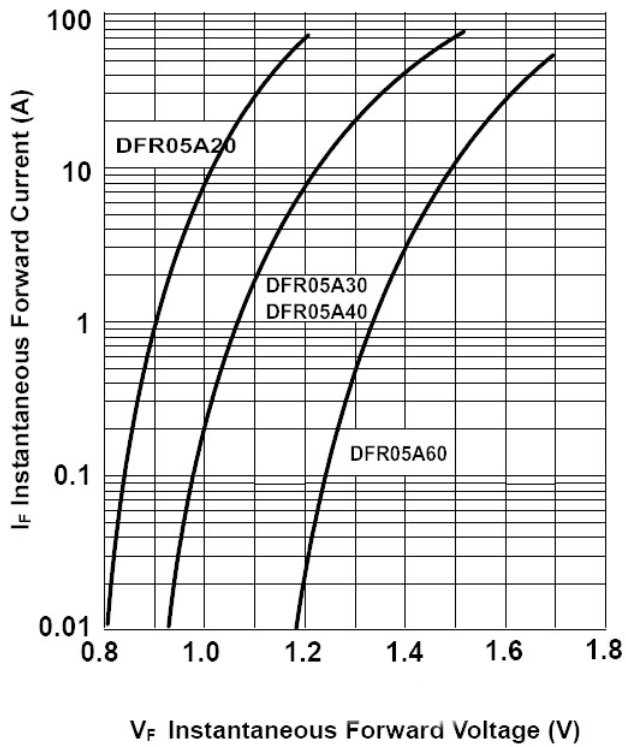
Ratings at 25°C ambient temperature unless otherwise specified

	Symbols	DFR10A2 0	DFR10A3 0	DFR10A4 0	DFR10A6 0	Unit
IF = 10A Maximum forward voltage	VF	0,98	1,30		1,80	V
TA= 25°C Maximum reverse current TA=125°C	IR	30 250				μA
IF=0,5A IR=1,0A IREC=0,25A MAX, Reverse Recovery Time	trr	40				nS

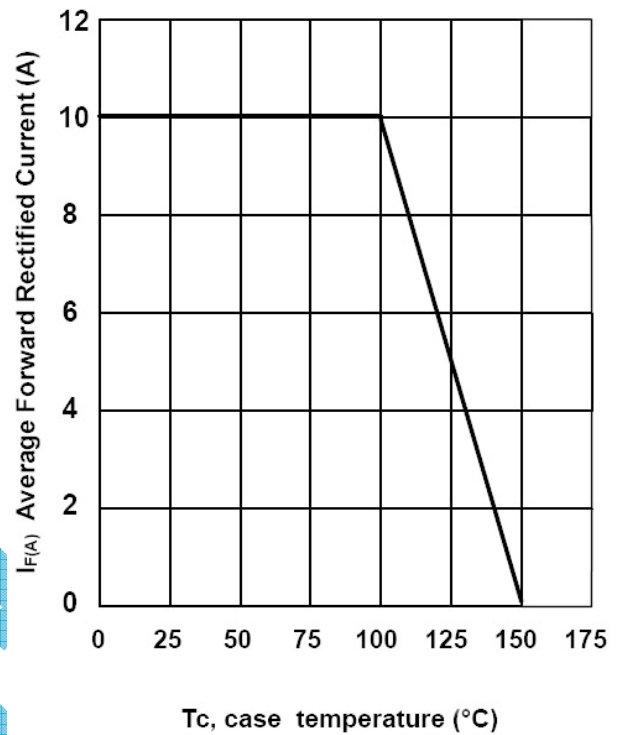
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Rating and Characteristic Curves

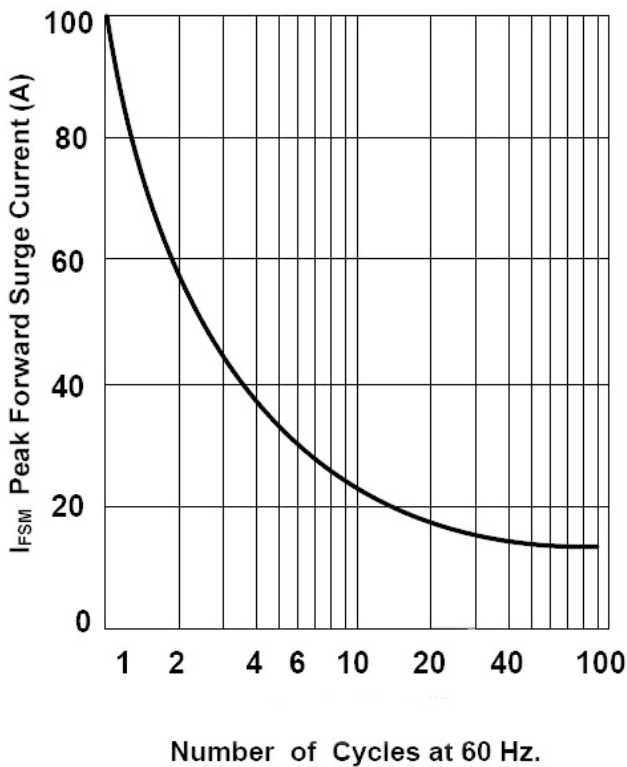
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



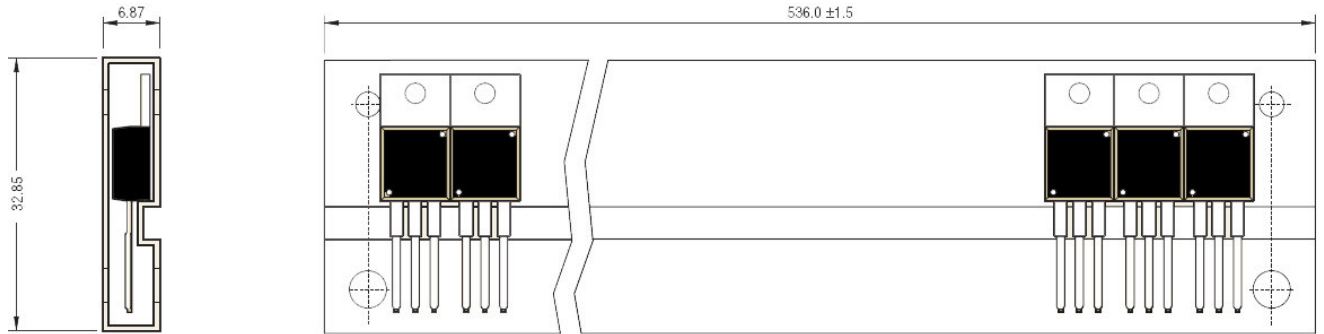
MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



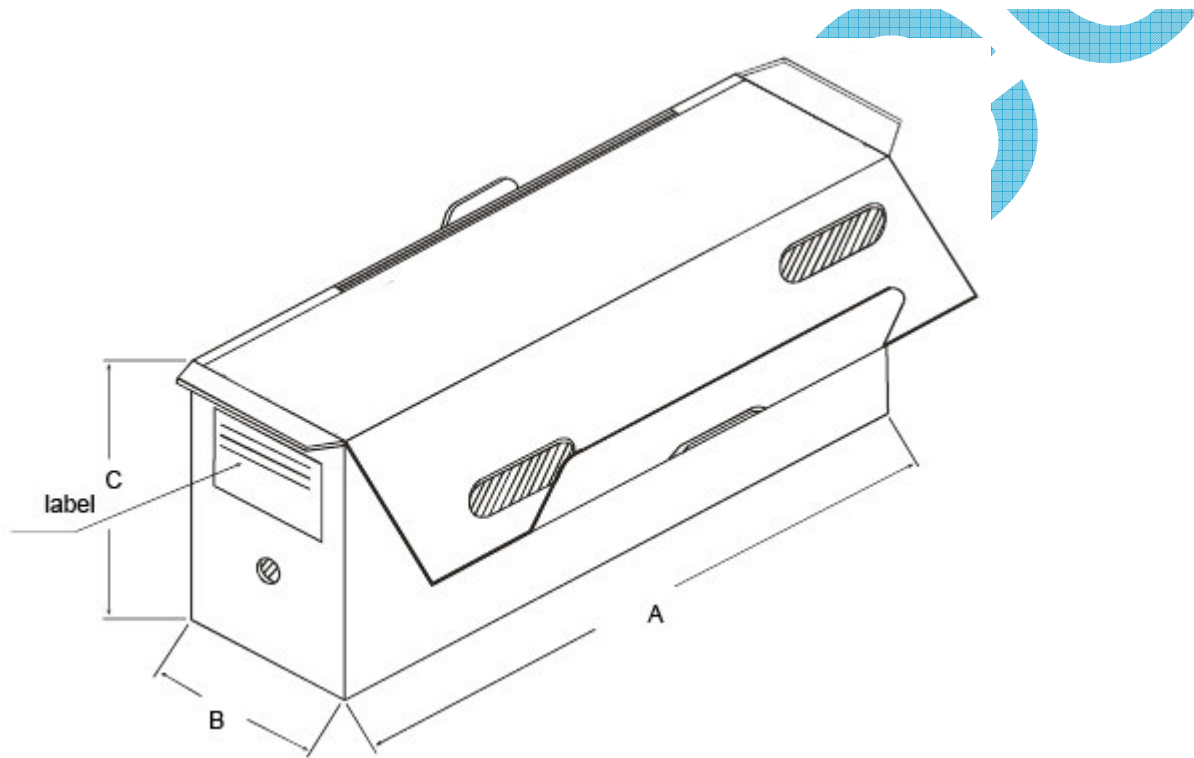
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FrelTec Ultra-fast Recover Rectifier

SPECIFICATION *TUBE Package*

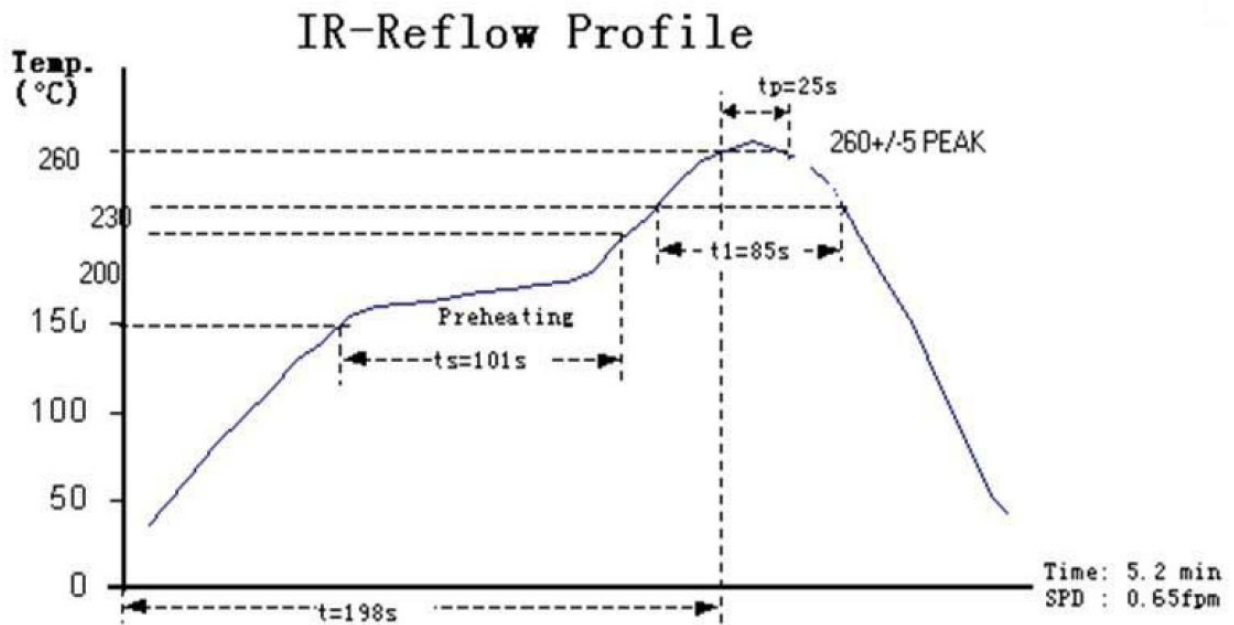


Qty: 50 Pcs/Tube



Packaging	Available Product Outlines	Dimension "A"	Dimension "B"	Dimension "C"	Quantity Box
TUBE PACK	TO220	540mm	170mm	78mm	2000 PCS

Lead Free Reflow Soldering Profile



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

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