

FrelTec

Mathildenstr. 10A
82319 Starnberg
Germany

Ultra-fast Recover Rectifier TO-220

TO-220

SPECIFICATION

683	SFAF50_Gxx	T220	Y0F
Type	Type	Package	Packing
683: Ultra-fast Recover Rectifier	SFAF50_G	TO-220	Y0F: tape in Tube for 50 pc

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

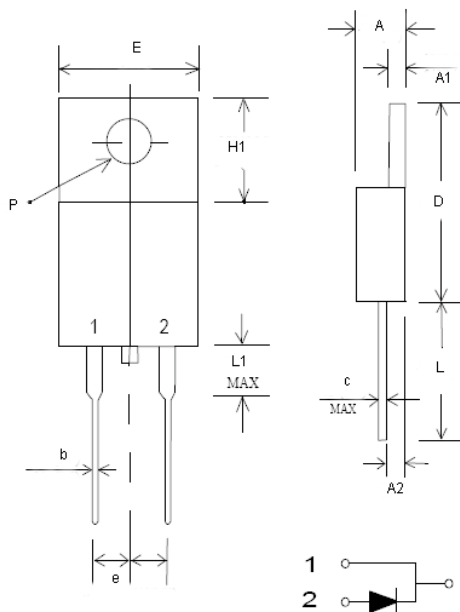
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Ultra-fast Recover Rectifier

SFAF50_G

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

	<i>Symbols</i>	SFAF50 2G	SFAF50 4G	SFAF50 6G	SFAF50 8G	Unit
Maximum repetitive peak reverse voltage	VRRM	100	200	400	600	V
Maximum RMS voltage	VRMS	70	140	280	420	V
Maximum DC blocking voltage	VDC	100	200	400	600	V
Maximum average forward rectified current	IF(AV)	5,0				A
Peak forward surge current 8,3 ms single half sine-wave	IFSM	125				A
Typical thermal resistance	R θ JC	5,0				°C/W
Operating junction and storage temperature range	Tj, TSTG	-55---+150				°C

Electrical Characteristics

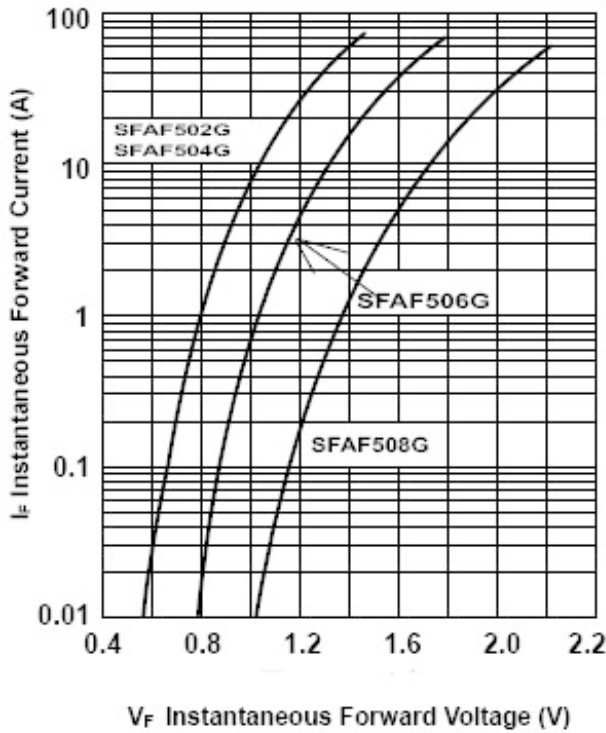
Ratings at 25°C ambient temperature unless otherwise specified

	<i>Symbols</i>	SFAF50 2G	SFAF50 4G	SFAF50 6G	SFAF508 G	Unit
IF = 5A Maximum forward voltage	VF	0,975		1,30	1,70	V
TA= 25°C Maximum reverse current	IR	10 400				μ A
IF=0,5A IR=1,0A IREC=0,25A MAX, Reverse Recovery Time	trr	35				nS

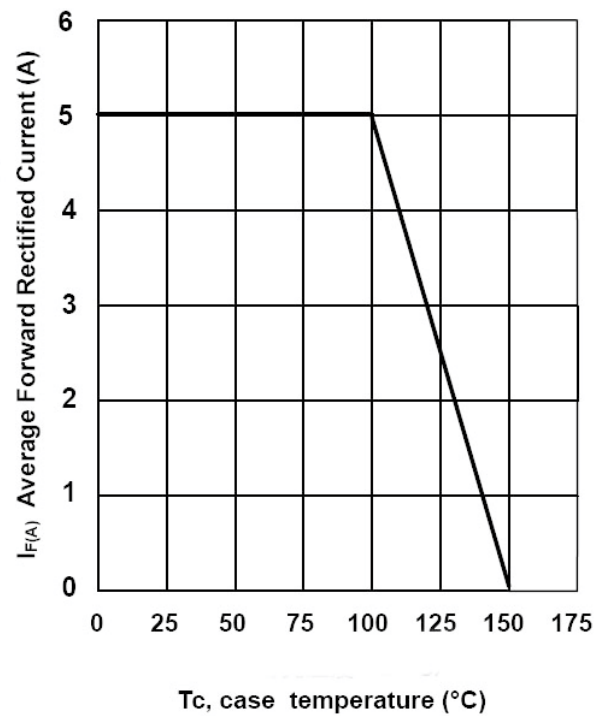
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Rating and Characteristic Curves

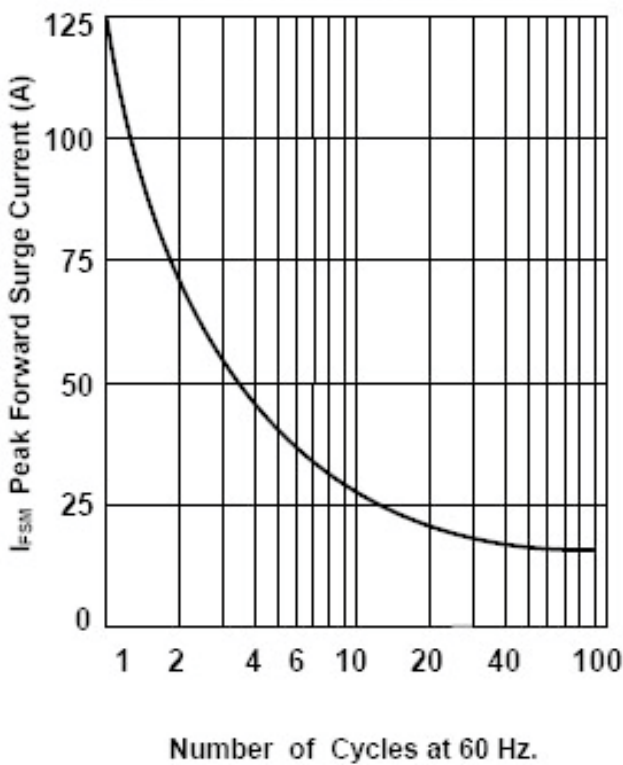
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



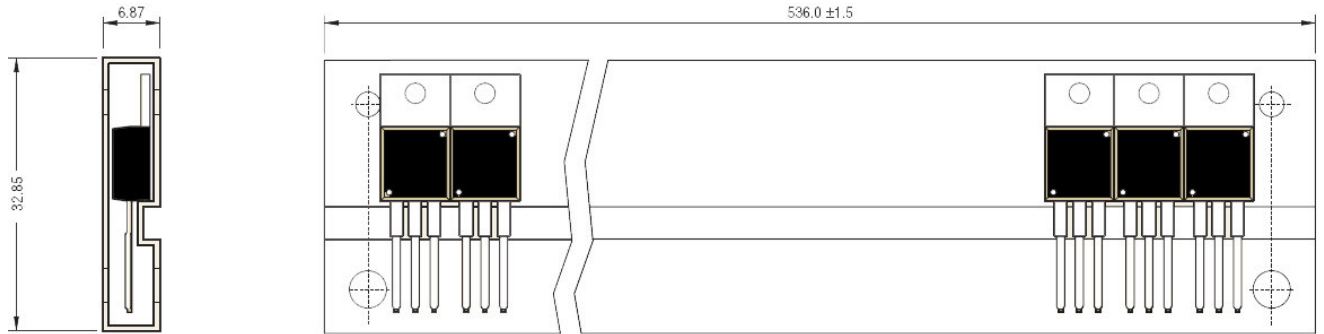
MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



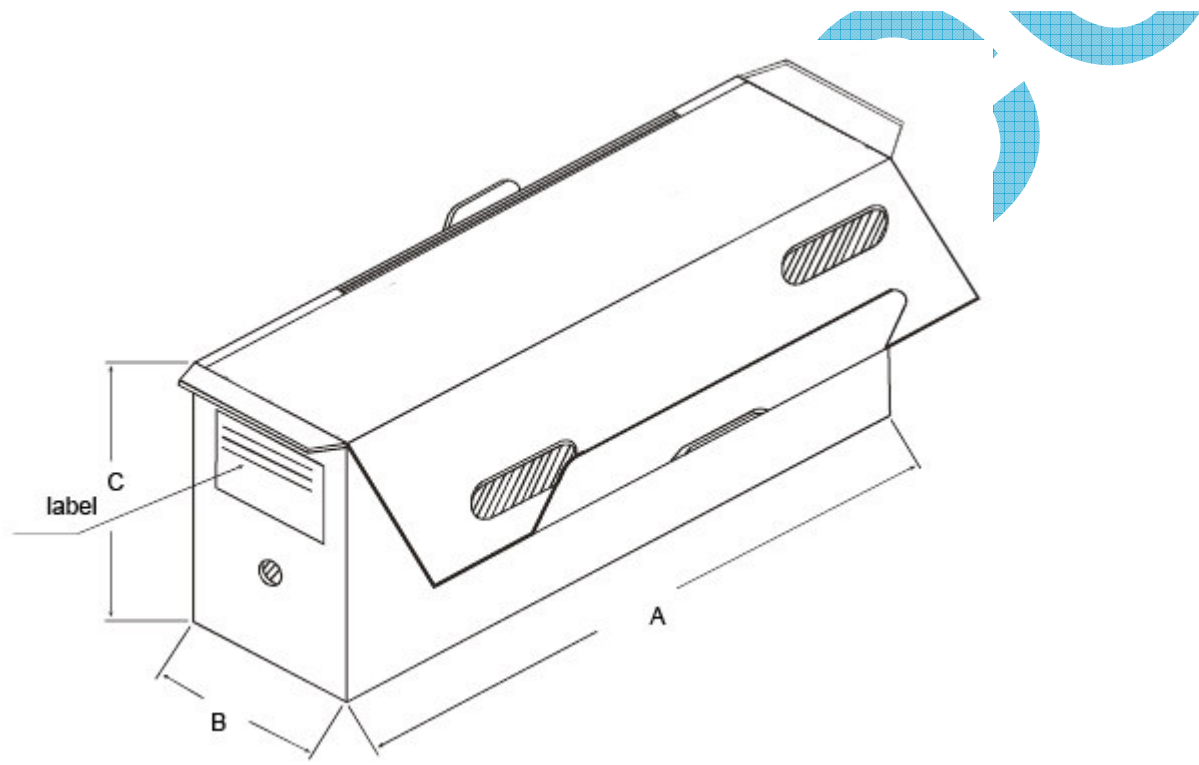
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SPECIFICATION *TUBE Package*

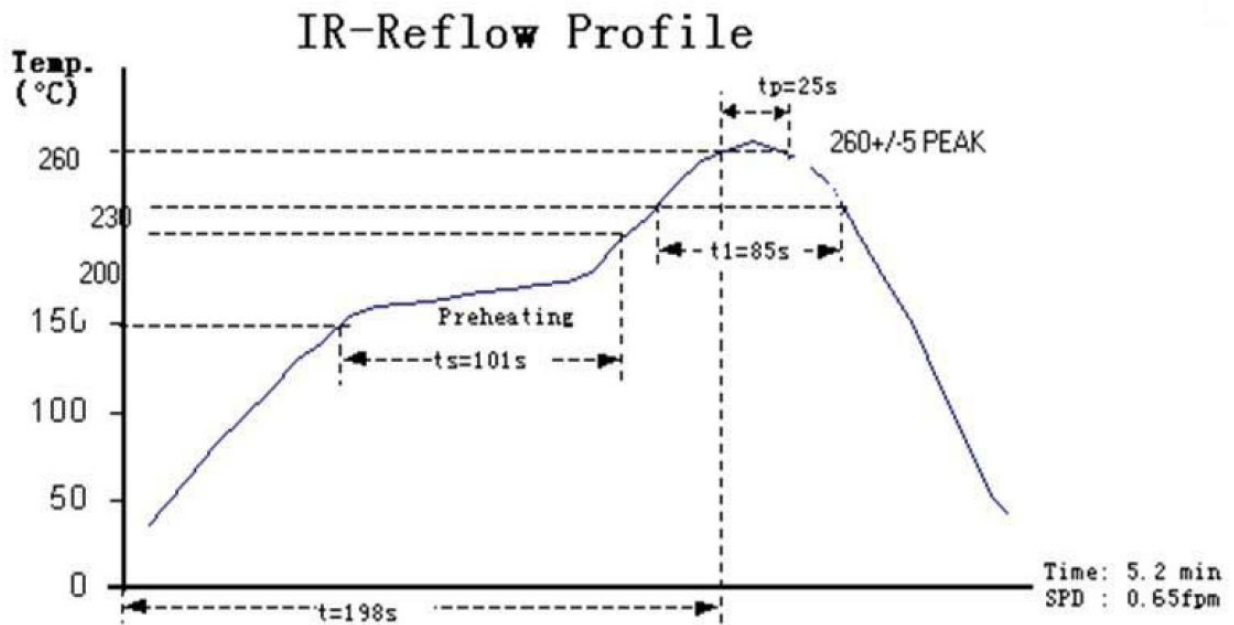


Qty: 50 Pcs/Tube



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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