FrelTec

Mathildenstr. 10A
82319 Starnberg
Germany

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Fast Recovery Rectifier
DO15

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Fast Recovery Rectifier

SPECIFICATION

683		SF2_Gxxxxx		DO15		B0X
Type		Type		Package		Packing
683: Fast Recovery Rectifier		SF2_G		DO15		B0X: tape in box (paper tape) for 1,5k pc

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

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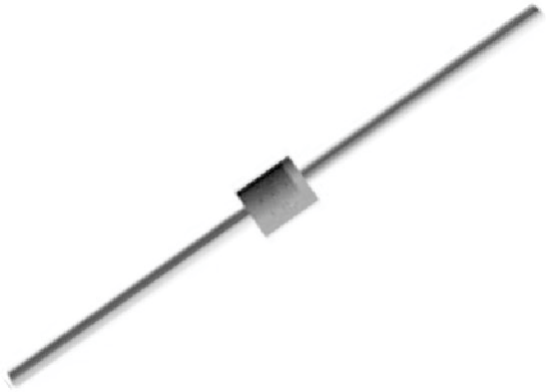
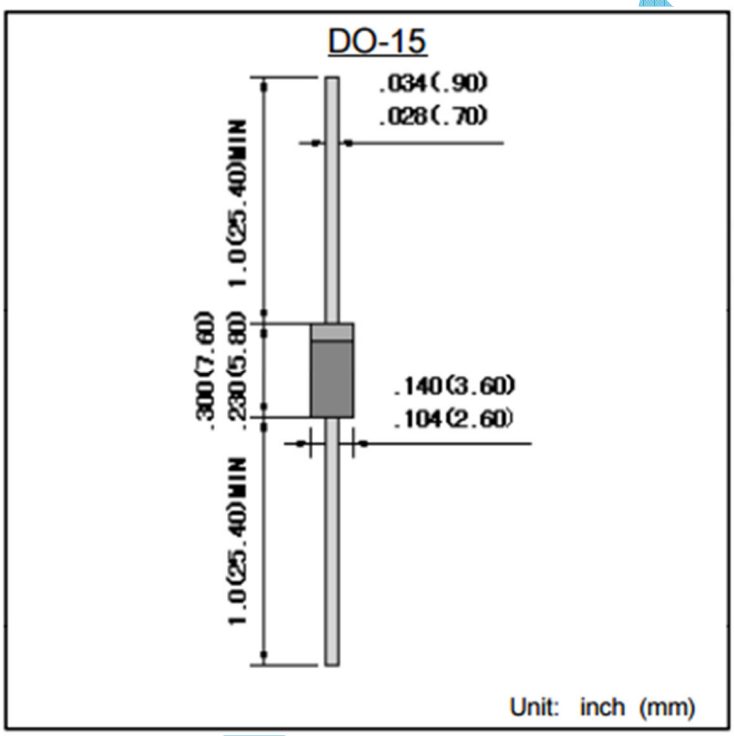
PACKAGE OUTLINE





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Fast Recovery Rectifier

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

Parameter	Symbols	SF21G	SF22G	SF23G	SF24G	SF25G	SF26G	SF28G	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	150	200	300	400	600	V
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	V
Maximum average forward rectified current	IF(AV)	2,0							A
Peak forward surge current 8,3 ms single half sine-wave	IFSM	50							A
IF = 2,0A Maximum forward voltage	VF	0.95				1,25		1,7	V
TA= 25°C Maximum reverse current	IR	5							uA
IF=0,5A IR=1,0A IRR=0,25A MAX. Reverse Recovery Time	trr	35							nS
Typical thermal resistance(Note 1)	RθJA	60							°C /W
Operating junction and storage temperature range	Tj, TSTG	-55 --- +150							°C

Note:1)Thermal resistance from junction to ambient at 0,375”(9,5mm) lead length, PCB mounted.

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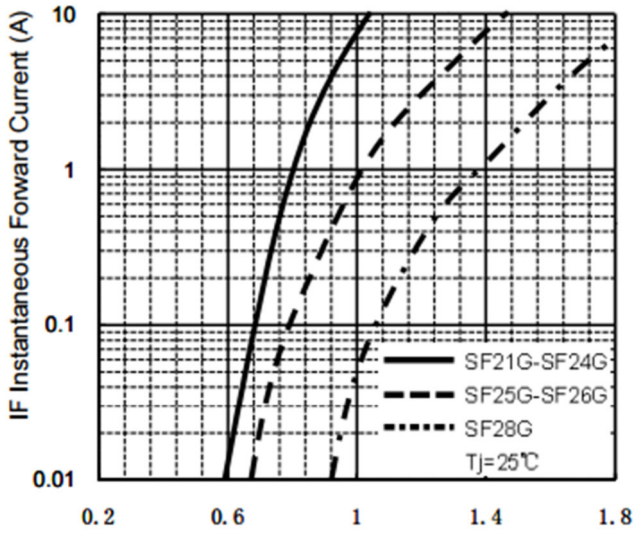
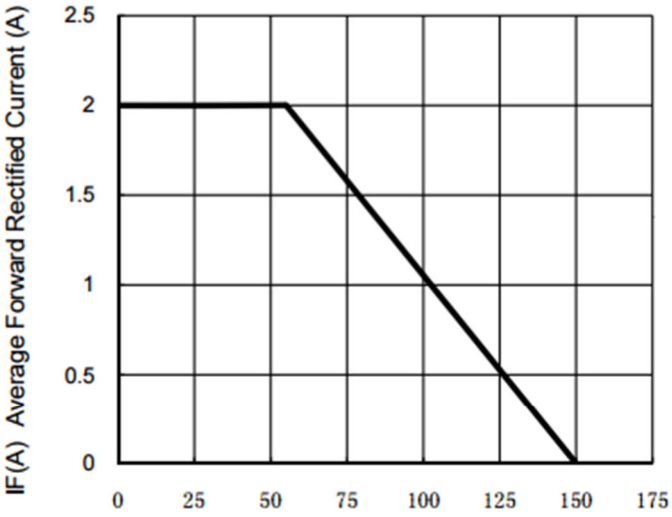
Characteristics(Typical)

TYPICAL FORWARD CHARACTERISTIC



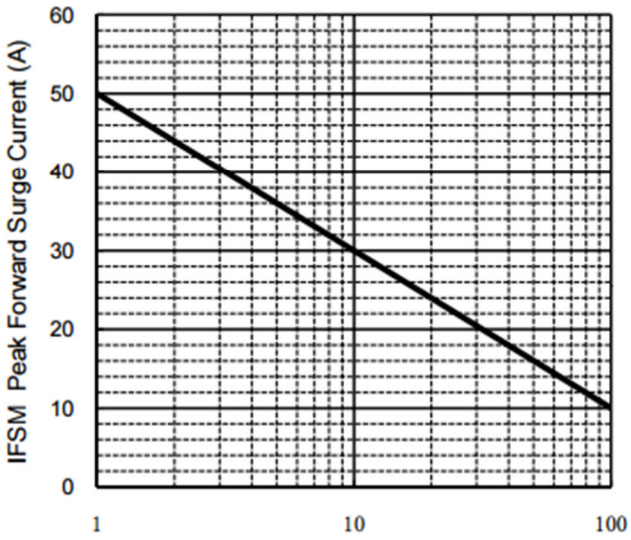
VF Instantaneous Forward Voltage (V)

FORWARD CURRENT DERATING CURVE



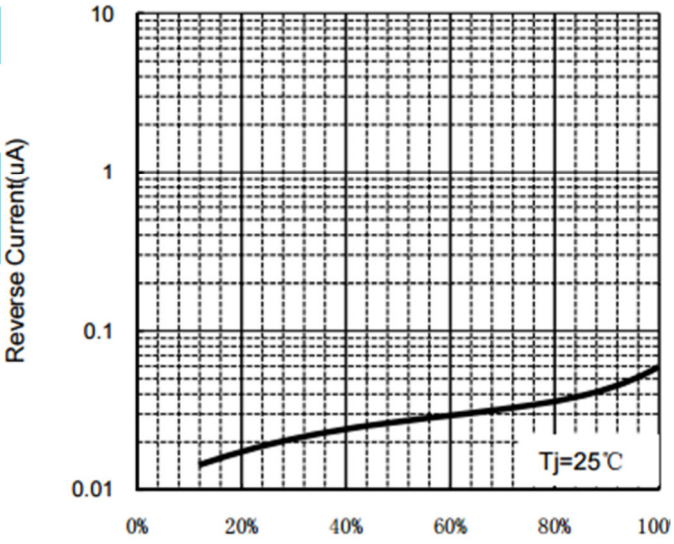
Tamb, ambient temperature (°C)

MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



Number of Cycles at 60 Hz.

Typical Reverse Characteristics



Percent Of Rated Peak Reverse voltage %

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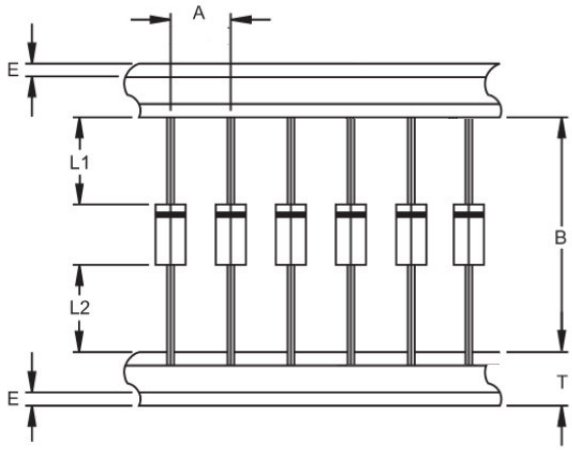
SPECIFICATION

Tape in box (paper tape)



Taping Dimensions	A +/- 0,5mm	B +/- 1,5mm	T	E	L1-L2
DO-15	0,5mm	52,4mm	2,75~6,4	0,8max	±1,2

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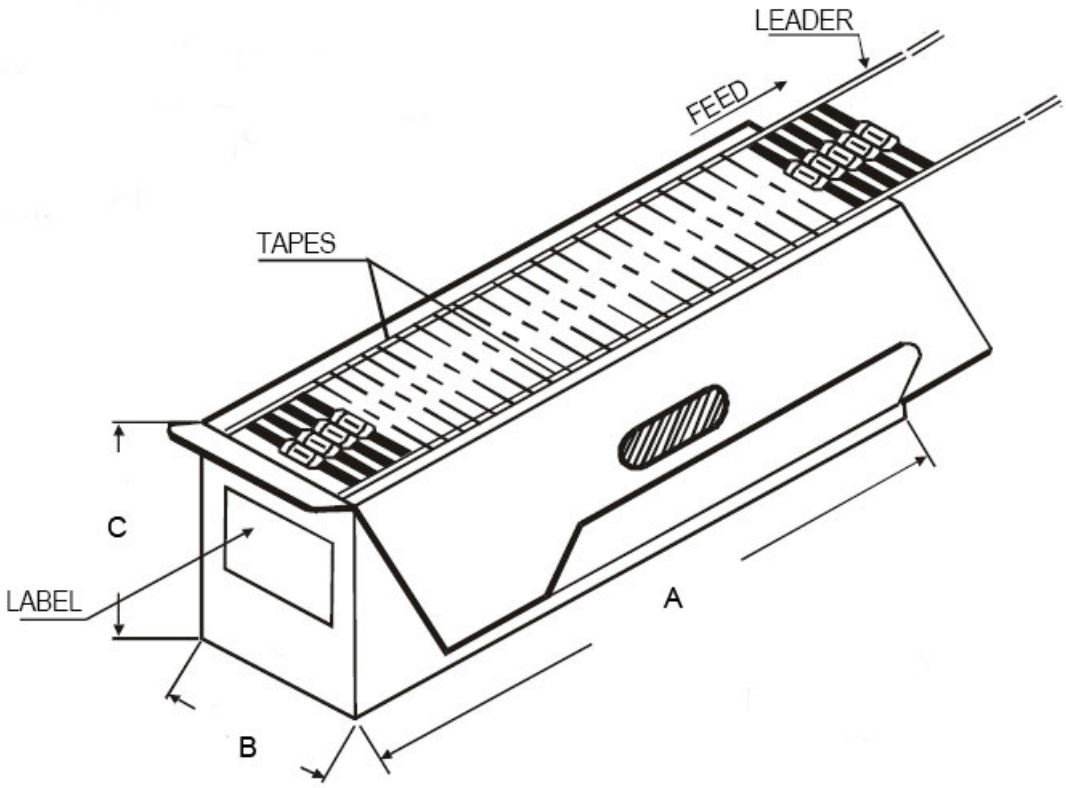
This axial-lead component's packaging requirements use in automatic testing and assembly equipment. And this standard practices for lead-tape packaging of axial-lead components meets the requirements of EIA Standard RS-296-D "Lead-taping of Components on Axial Lead Configuration for Automatic Insertion".

Tape & Ammo Outline



Packaging	Available Product Outlines	Dimension "A"	Dimension "B"	Dimension "C"	Quantity Box
52mm Horizontal Ammo Pack	DO-15	255mm	73mm	77mm	1,5K

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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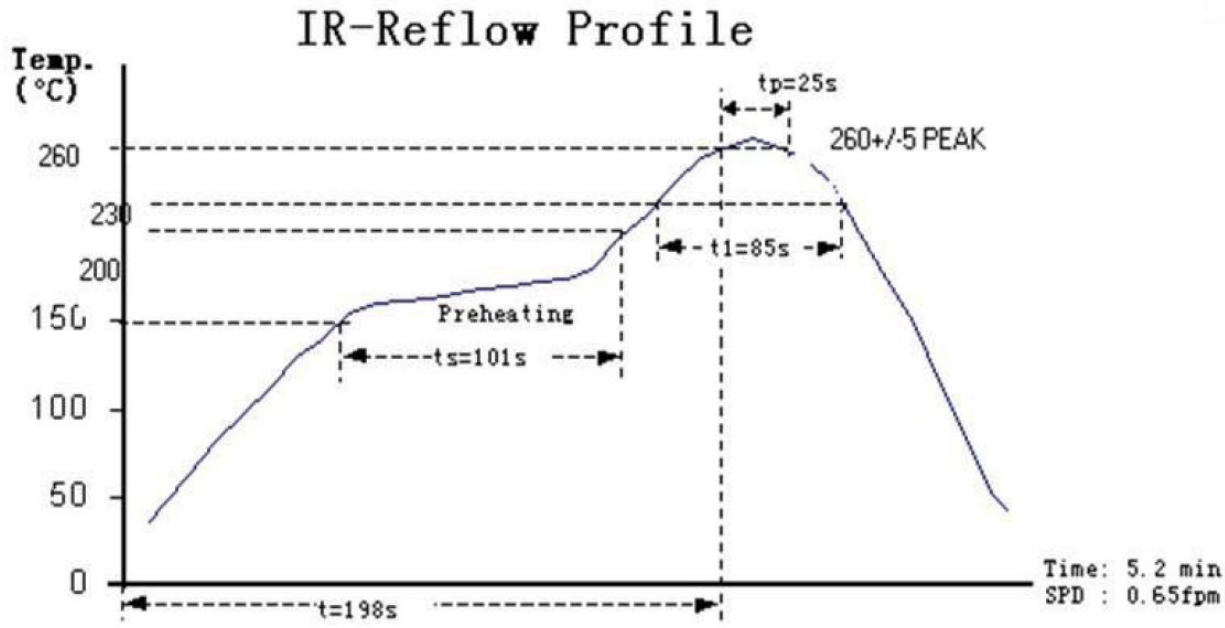
Lead Free Reflow Soldering Profile



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