

FrelTec

Mathildenstr. 10A
82319 Starnberg
Germany

General-purpose Rectifier DO27

DO-27

SPECIFICATION

683	1N540_Gxxx	DO27	B0A
Type	Type	Package	Packing
683: General- purpose Rectifier	1N540_G	DO27	B0A: tape in box (paper tape) for 500 pc

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

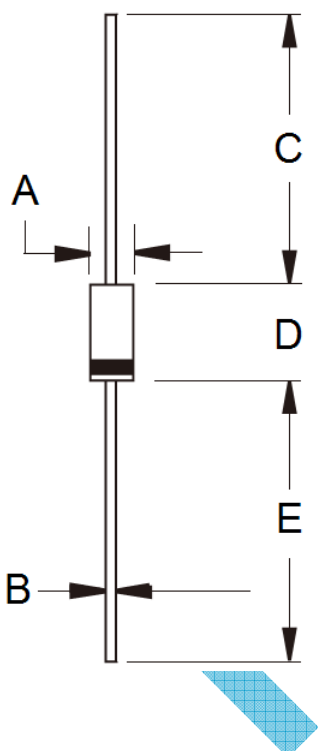
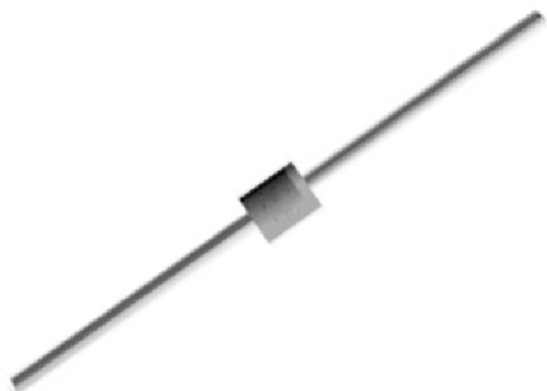
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General-purpose Rectifier

1N540_G

PACKAGE OUTLINE



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	5,0	5,6	0,197	0,220
B	1,2	1,3	0,048	0,052
C	25,4	-	1	-
D	8,5	9,5	0,335	0,375
E	25,4	-	1	-

DO-27

General-purpose Rectifier

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Parameter	Symbols	1N	1N	1N	1N	1N	1N	1N	1N	1N	Unit
		5400G	5401G	5402G	5403G	5404G	5405G	5406G	5407G	5408G	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	300	400	500	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	210	280	350	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	300	400	500	600	800	1000	V
Maximum average forward rectified current	IF(AV)	3,0									A
Peak forward surge current 8,3 ms single half sine-wave	IFSM	125									A
Typical thermal resistance	R θ JA	20									°C /W
Operating junction and storage temperature range	TJ, TSTG	-55 --- +150									°C

Electrical Characteristics

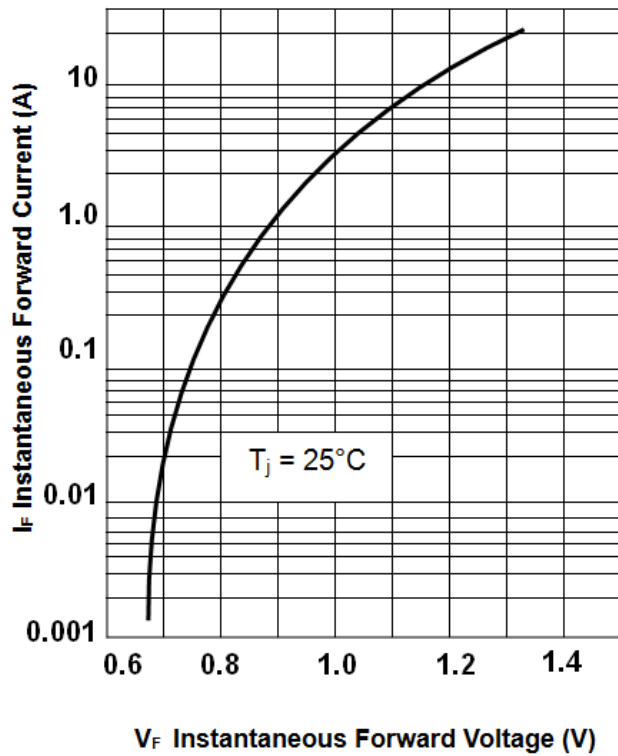
Ratings at 25°C ambient temperature unless otherwise specified

	Symbols	1N	1N	1N	1N	1N	1N	1N	1N	1N	Unit
		5400G	5401G	5402G	5403G	5404G	5405G	5406G	5407G	5408G	
IF = 3,0A Maximum forward voltage	VF	1,1									V
Maximum reverse current TA= 25°C TA=125°C	IR	10 200									μA
VR = 4,0V, f = 1MHz Type junction capacitance	Cj	30									pF

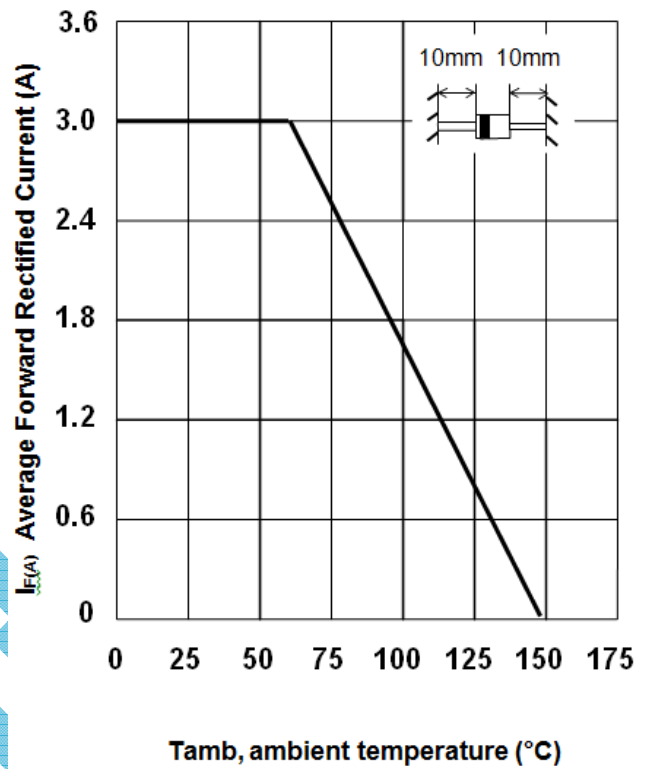
DO-27

Characteristics(Typical)

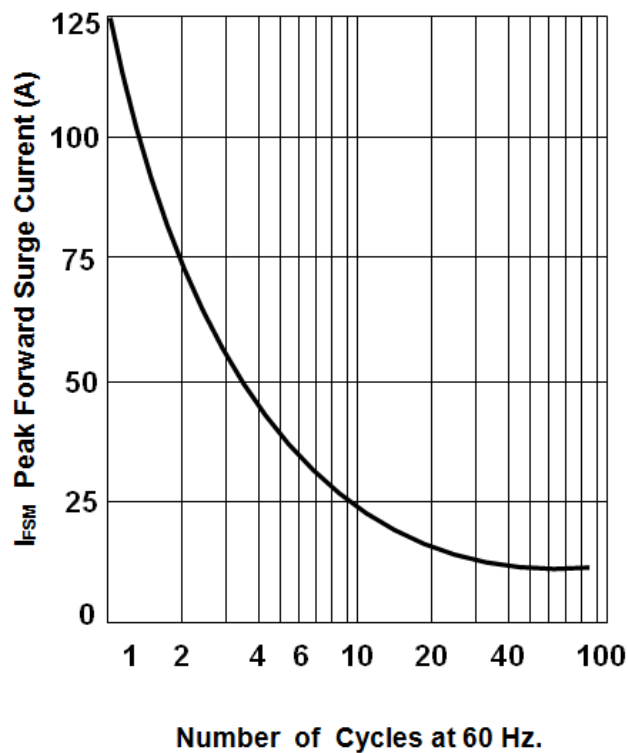
TYPICAL FORWARD CHARACTERISTIC



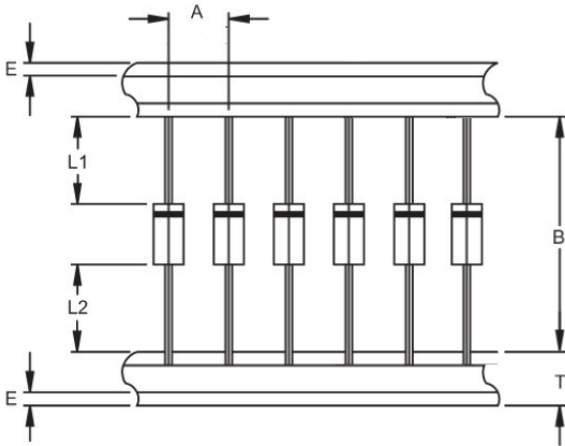
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



SPECIFICATION

Tape in box (paper tape)

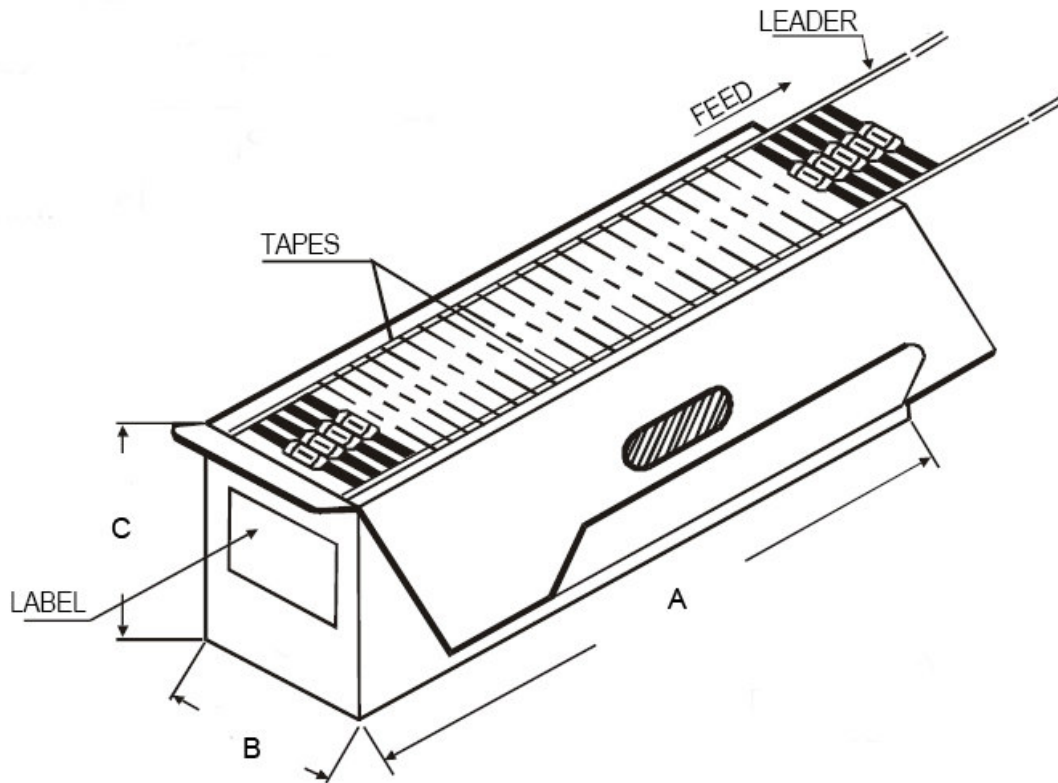
Taping Dimensions	A +/- 0,5mm	B +/- 1,5mm	T	E	L1-L2
DO-27	10mm	52,4mm	2,75~6,4	0,8max	±1,2

DO-27

General-purpose Rectifier

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

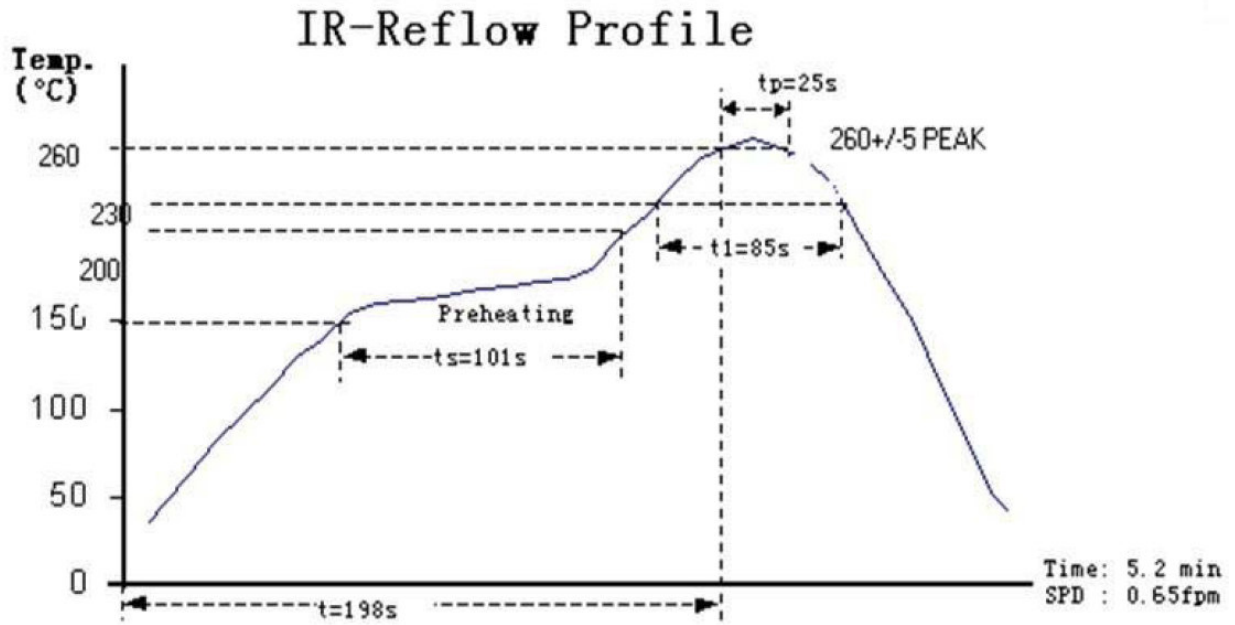


Packaging	Available Product Outlines	Dimension "A"	Dimension "B"	Dimension "C"	Quantity Box
52mm Horizontal Ammo Pack	DO-27	255mm	73mm	77mm	500PCS

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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DO-27

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