

FrelTec

Mathildenstr. 10A
82319 Starnberg
Germany

General-purpose Rectifier DO41

DO-41

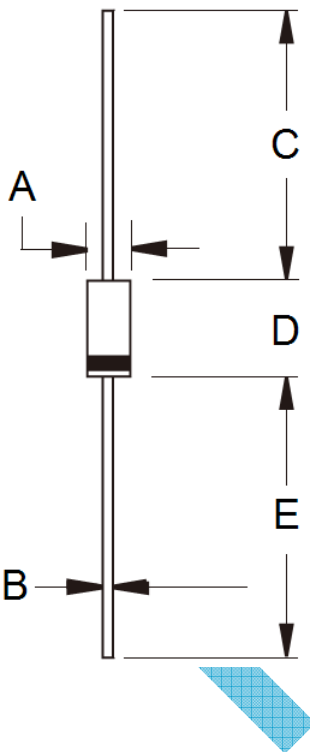
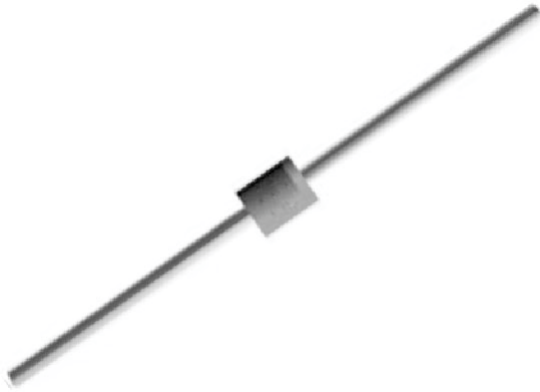
SPECIFICATION

683	1N400_Gxxx	DO41	B0Y
Type	Type	Package	Packing
683: General- purpose Rectifier	1N400_G	DO41	B0Y: tape in box (paper tape) for 2,5k pc

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

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PACKAGE OUTLINE



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2,0	2,7	0,080	0,107
B	0,7	0,9	0,028	0,034
C	25,4	-	1	-
D	4,2	5,2	0,166	0,205
E	25,4	-	1	-

DO-41

General-purpose Rectifier

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Parameter	Symbols	1N	1N	1N	1N	1N	1N	1N	Unit
		4001G	4002G	4003G	4004G	4005G	4006G	4007G	
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
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	R θ JA	65							°C /W
Operating junction and storage temperature range	Tj, TSTG	-55 --- +150							°C

Electrical Characteristics

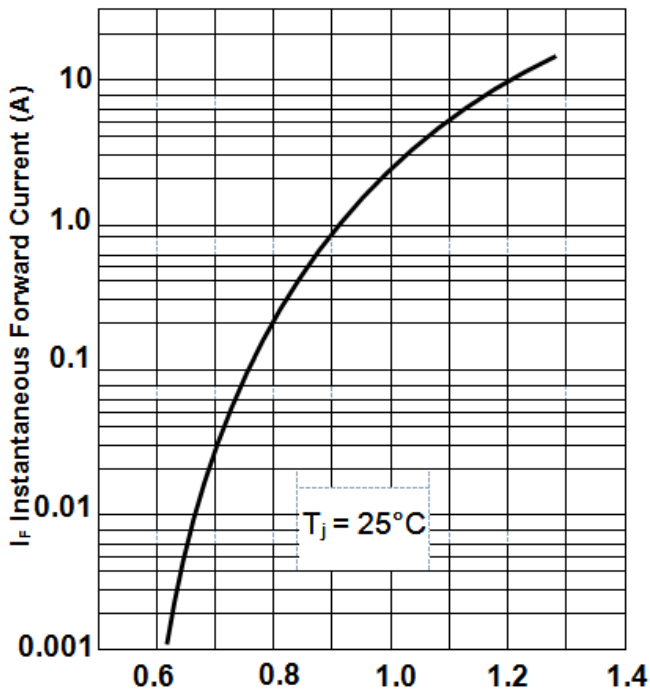
Ratings at 25°C ambient temperature unless otherwise specified

	Symbols	1N	1N	1N	1N	1N	1N	1N	Unit
		4001G	4002G	4003G	4004G	4005G	4006G	4007G	
IF = 1,0A Maximum forward voltage	VF	1,1							V
TA= 25°C Maximum reverse current TA=100°C	IR	5,0 50							μ A
VR = 4,0V, f = 1MHz Type junction capacitance	Cj	15							pF

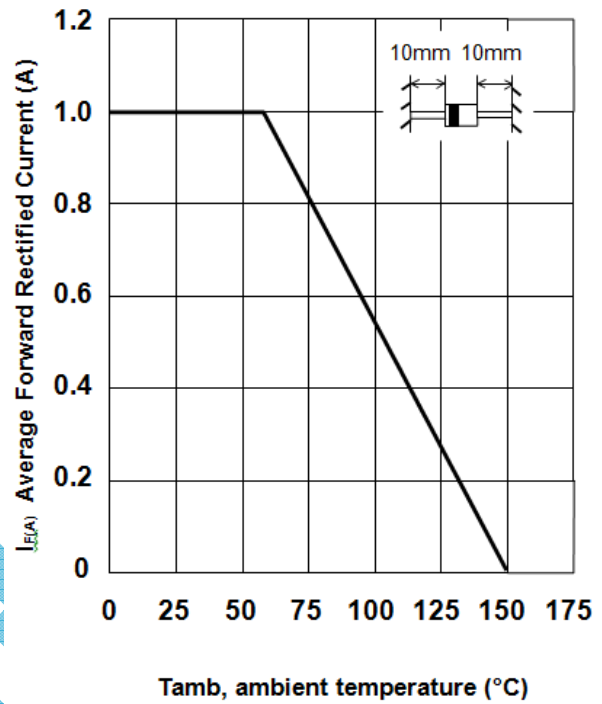
DO-41

Characteristics(Typical)

TYPICAL FORWARD CHARACTERISTIC

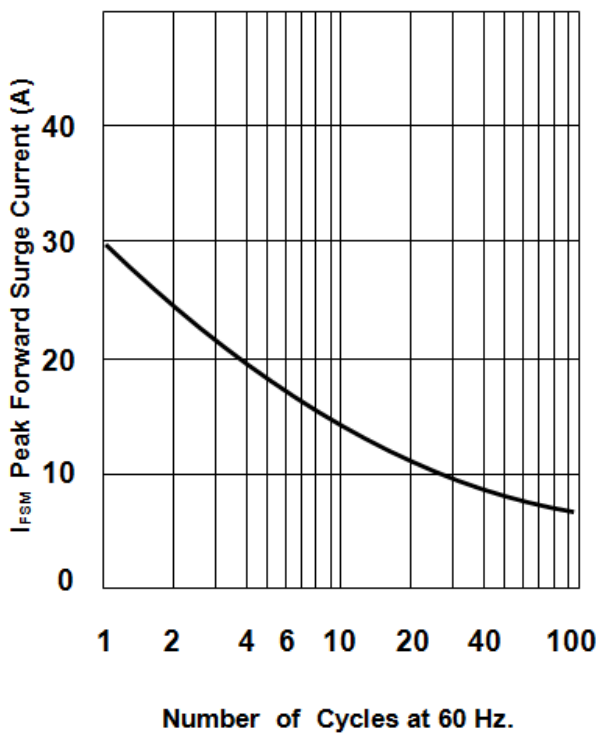


FORWARD CURRENT DERATING CURVE



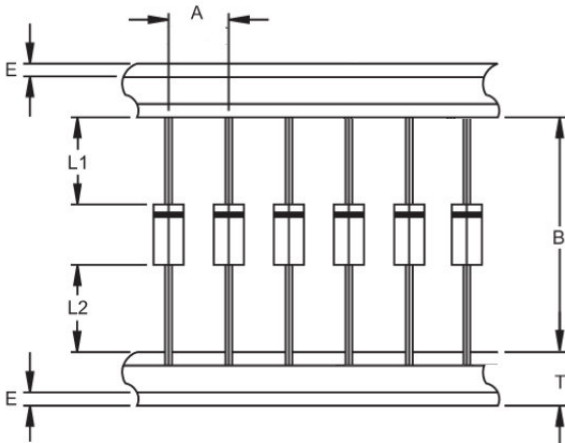
V_F Instantaneous Forward Voltage (V)

MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



DO-41

SPECIFICATION

Tape in box (paper tape)

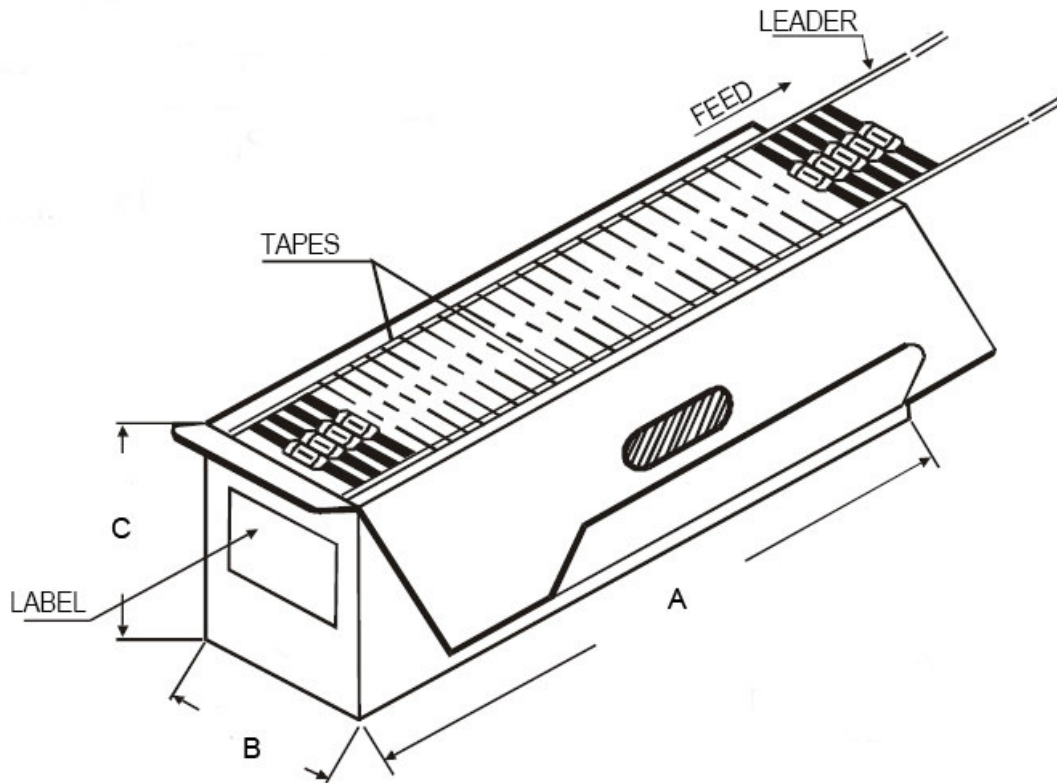
Taping Dimensions	A +/- 0,5mm	B +/- 1,5mm	T	E	L1-L2
DO-41	0,5mm	52,4mm	2,75~6,4	0,8max	±1,2

DO-41

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

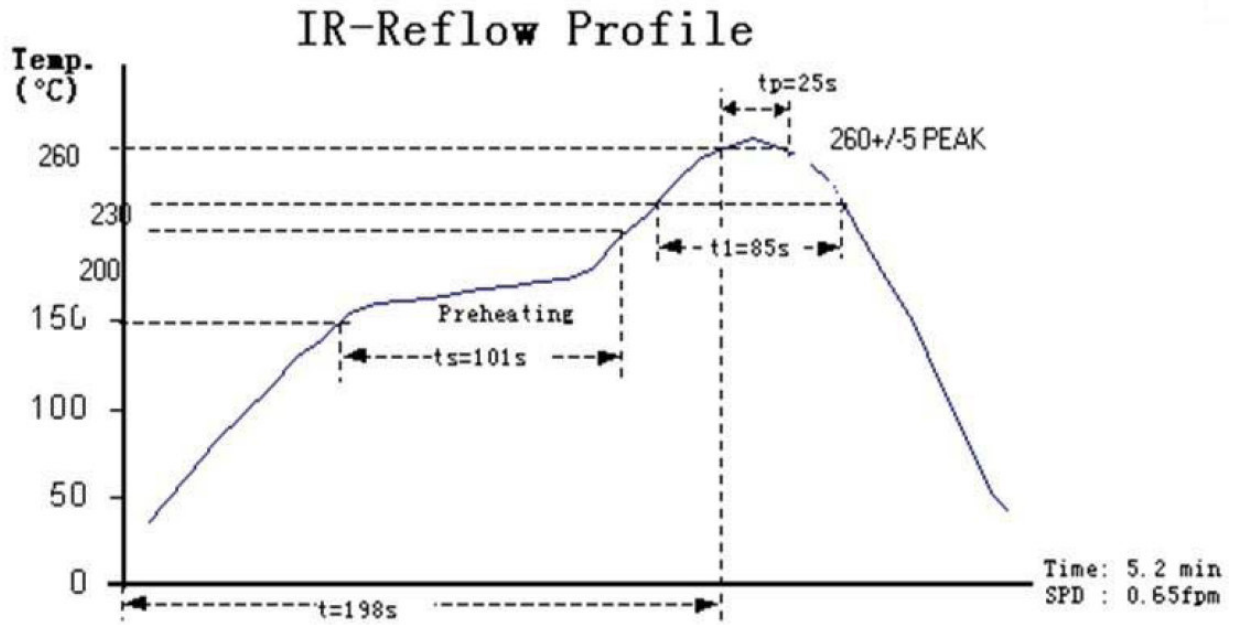


Packaging	Available Product Outlines	Dimension "A"	Dimension "B"	Dimension "C"	Quantity Box
52mm Horizontal Ammo Pack	DO-41	255mm)	73mm	77mm	2,5K

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

Lead Free Reflow Soldering Profile



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General-purpose Rectifier

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