1N4001G thru 1N4007G GOOD-ARK Electronics

1A,50-1000V Standard Rectifiers

Features

- Low leakage current
- Low forward voltage drop
- Glass passivated chip junction
- For general purpose applications
- Moisture sensitivity: level 1, per J-STD-020
- For fast switching and low logic level applications
- High temperature soldering guaranteed: 260 ℃/10 seconds



Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)									
Parameter	Symbol	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	1							Α
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	Ігѕм	30						A	
Operating junction temperature range	TJ	-55 to +150						°C	
Storage temperature range	T _{STG}	-55 to +150						°C	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)							
Parameter	Symbol	Тур	Unit				
Thermal Resistance, Junction to Ambient	Reja	52	°C /W				
Thermal Resistance, Junction to Case	R ₀ JC	15	°C /W				
Thermal Resistance, Junction to Lead	R _{θJL}	13	°C /W				



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Electrical Specifications(Ta=25°C unless otherwise noted)										
Parameter	Symbol	Test Conditions	1N4001 G	1N4002 G	1N4003 G	1N4004 G	1N4005 G	1N4006 G	1N4007 G	Unit
Forward Drop Voltage	VF	I _F =1A	1.10					V		
Reverse leakage current @V _R		TJ =25°C	5							
	IR	T」=125°C				100				uA
Typical junction capacitance	CJ	4.0 V 1 MHZ	15						pF	
Typical reverse recovery time		I _F =0.5A,	1						uS	
	trr	I _R =1.0A,								
		I _{RR} =0.25A								

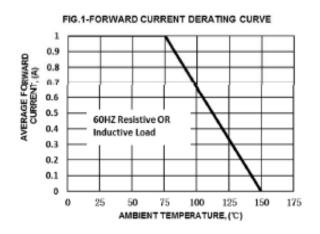
Note:

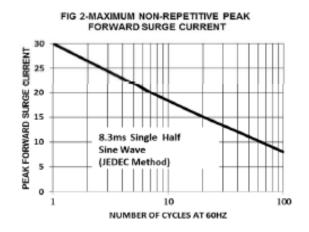
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

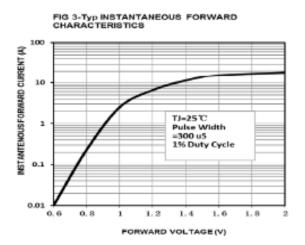
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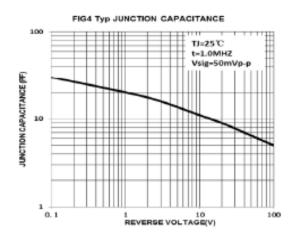
Ratings and Characteristics Curves

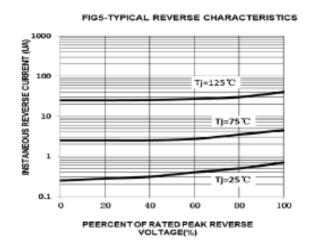
(TA = 25°C unless otherwise noted)

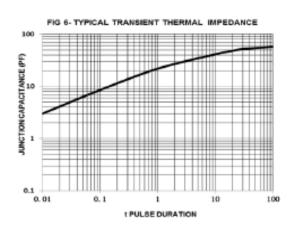












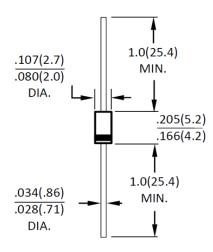
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Package Outline Dimensions

in inches (millimeters)

DO-41(DO-204AL)



Dimensions in inches and (millimeters)

Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.11.27	Modify document format



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