

GOOD-ARK Electronics

3A,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



DO-201AD

Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)											
Parameter	Symbol	1N540 0	1N540 1	1N540 2	1N540 3	1N540 4	1N540 5	1N540 6	1N540 7	1N540 8	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	٧
Maximum average forward rectified current	I _{F(AV)}		3						Α		
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM		200						A		
Operating junction temperature range	TJ	-55 to +135					°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	30	°C /W				
Thermal Resistance, Junction to Case	R _{θJC}	16	°C /W				
Thermal Resistance, Junction to Lead	$R_{ heta JL}$	10	°C /W				



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Parameter	Symbol	Test Conditions	1N54 00	1N54 01	1N54 02	1N54 03	1N54 04	1N54 05	1N54 06	1N54 07	1N54 08	Unit
Forward Drop Voltage	VF	I _F =3A	1.20					V				
Reverse leakage		TJ =25°C					5					^
current @V _R		T _J =125°C	100							uA		
Typical junction capacitance	CJ	4.0 V 1 MHZ					pF					

Note:

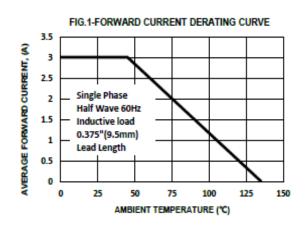
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

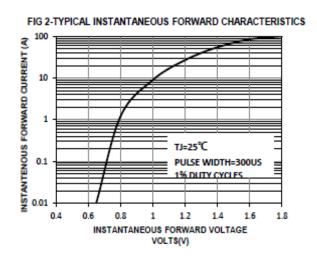


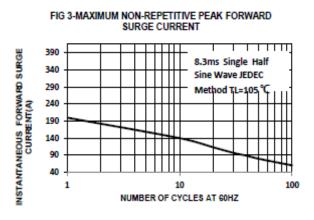
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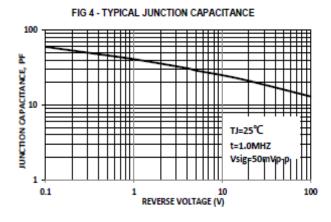
Ratings and Characteristics Curves

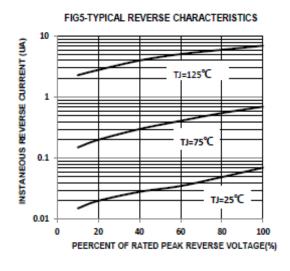
(TA = 25°C unless otherwise noted)

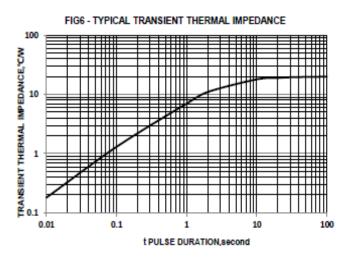










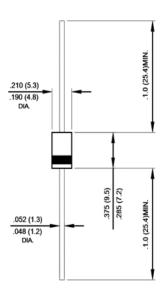




Package Outline Dimensions

in inches (millimeters)

DO-201AD



Dimensions in inches and (millimeters)

Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2024.02.22	Modify document format



1N5400 thru 1N5408

GOOD-ARK Flectronics

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