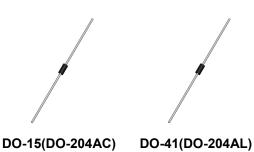


GOOD-ARK Electronics

1.5A,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°C/10 seconds



Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)											
Parameter	Symbol	1N539 1	1N539 2	1N539 3	1N539 4	1N539 5	1N539 6	1N539 7	1N539 8	1N539 9	Unit
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)		1.5						А		
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	Ifsm		50						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	25	°C /W				
Thermal Resistance, Junction to Case	R _{eJC}	13	°C /W				
Thermal Resistance, Junction to Lead	R _{θJL}	15	°C /W				



1N5391 thru 1N5399 GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)												
Parameter	Symbol	Test Conditions	1N53 91	1N53 92	1N53 93	1N53 94	1N53 95	1N53 96	1N53 97	1N53 98	1N53 99	Unit
Forward Drop Voltage	VF	I⊧=1.5A	1.40						V			
Reverse leakage		TJ =25℃					5					
current @V _R	T」=125℃					100					uA	
Typical junction capacitance	CJ	4.0 V 1 MHZ	15							pF		
Typical reverse recovery time	trr	I _F =0.5A, I _R =1.0A, I _{RR} =0.25A	0A, 1						uS			

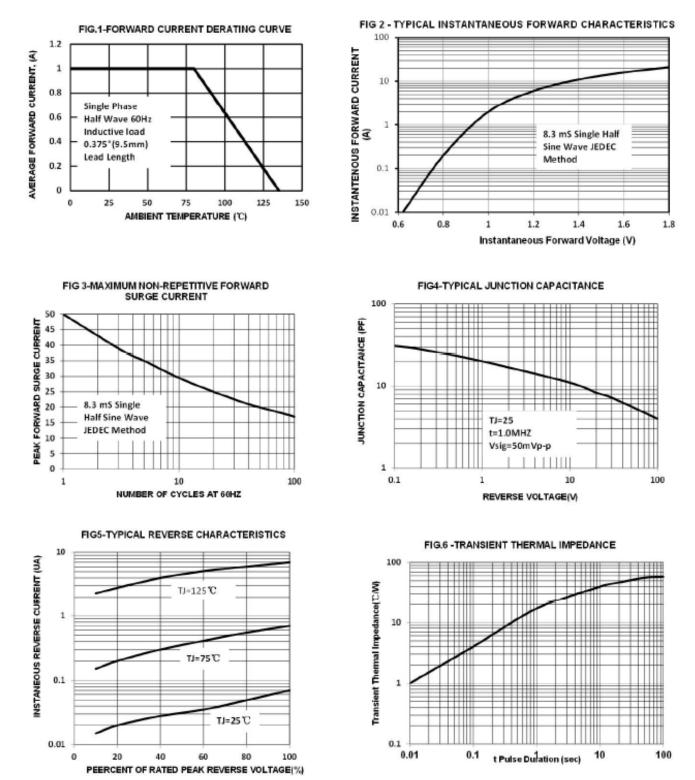
Note:

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



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)



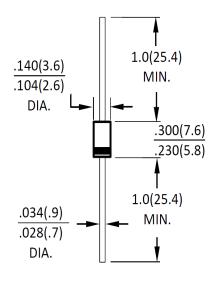


GOOD-ARK Electronics

Package Outline Dimensions

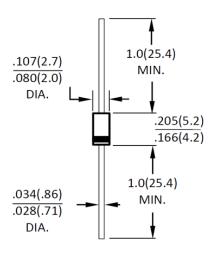
in inches (millimeters)

DO-15(DO-204AC)



Dimensions in inches and (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	2024.02.22	Modify document format					



1N5391 thru 1N5399

GOOD-ARK Electronics

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