

GOOD-ARK Electronics

1A,50-600V Fast Recovery 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-41/A-405

Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)							
Parameter	Symbol	1N4933	1N4934	1N4935	1N4936	1N4937	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	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	IFSM	30			А		
Operating junction temperature range	TJ	-55 to +135			°C		
Storage temperature range	Tstg	-55 to +150		°C			

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)						
Parameter	Symbol	Тур	Unit			
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	52	°C /W			
Thermal Resistance, Junction to Case	R _θ JC	24	°C /W			
Thermal Resistance, Junction to Lead	ReJL	13	°C /W			

1N4933 thru 1N4937 GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)								
Parameter	Symbol	Test Conditions	1N4933	1N4934	1N4935	1N4936	1N4937	Unit
Forward Drop Voltage	V _F	I _F =1A	1.30				V	
Reverse leakage current @V _R	lR	T₁ =25°C	5					
		T _J =125°C			100			uA
Typical junction capacitance	CJ	4.0 V 1 MHZ	15				pF	
Maximum reverse recovery time	trr	I _F =0.5A,						
		I _R =1.0A,	200					nS
		I _{RR} =0.25A						

Note:

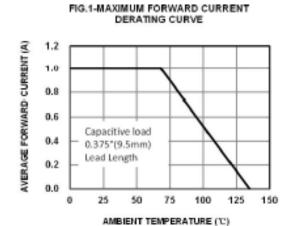
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

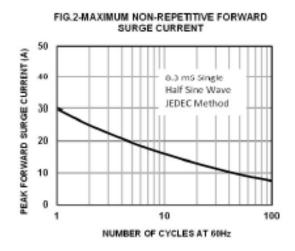


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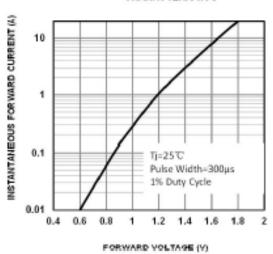
Ratings and Characteristics Curves

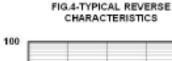
(TA = 25°C unless otherwise noted)











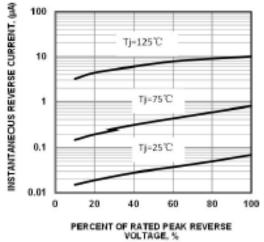
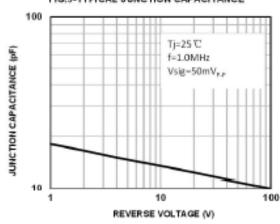
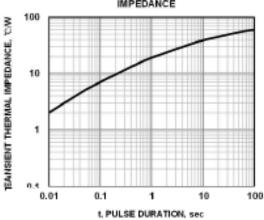


FIG.5-TYPICAL JUNCTION CAPACITANCE









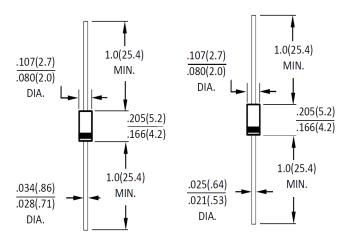
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Package Outline Dimensions

in inches (millimeters)

DO-41/A-405

DO-204AL(DO-41) A-405



Dimensions in inches and (millimeters)

Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2024.02.23	Modify document format



1N4933 thru 1N4937

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