

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



DO-41(DO-204AL)

Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)									
Parameter	Symbol	GP10A	GP10B	GP10D	GP10G	GP10J	GP10K	GP10M	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	I _{FSM}	30			А				
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 _{θJC}	15	°C /W				
Thermal Resistance, Junction to Lead	R _{θJL}	13	°C /W				



GP10A thru GP10M GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)										
Parameter	Symbol	Test Conditions	GP10A	GP10B	GP10D	GP10G	GP10J	GP10K	GP10M	Unit
Forward Drop Voltage	V _F	I _F =1A	1.10 1.20					20	V	
Reverse leakage	everse leakage .	TJ =25°C	5							- uA
current @V _R	IR	T」=125℃	50							
Typical junction capacitance	Сл	4.0 V 1 MHZ	15					pF		
Typical reverse recovery time trr		I _F =0.5A,								
	trr	I _R =1.0A, I _{RR} =0.25A			1					uS

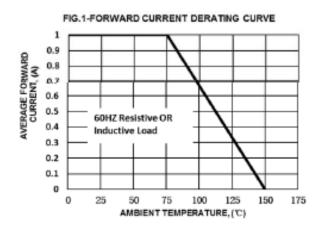
Note:

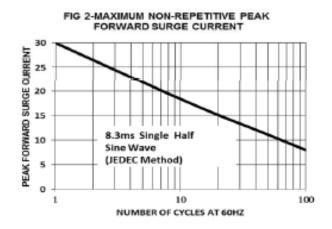
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

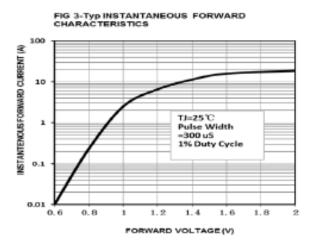


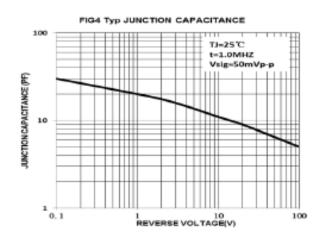
Ratings and Characteristics Curves

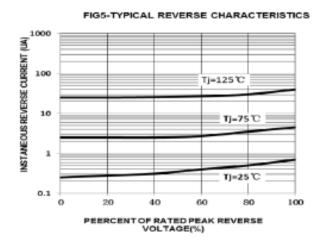
(TA = 25°C unless otherwise noted)

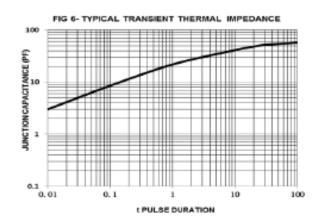












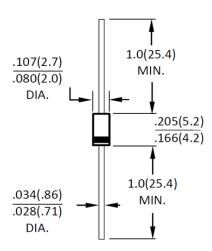


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Package Outline Dimensions

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



GP10A thru GP10M

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