



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	1G1	1G2	1G3	1G4	1G5	1G6	1G7	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	IFSM	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	$R_{\theta JA}$	72	°C /W				
Thermal Resistance, Junction to Case	R _θ JC	14	°C /W				
Thermal Resistance, Junction to Lead	Rejl	13	°C /W				



Electrical Specifications(TA=25°C unless otherwise noted)												
Parameter	Symbol	Test Conditions	1G1	1G2	1G3	1G4	1G5	1G6	1G7	Unit		
Forward Drop Voltage	V _F	I _F =1A	1.10					V				
Reverse leakage I _R current @V _R	1-	T _J =25°C				5						
	IR 	T _J =125°C				100				- uA		
Typical junction capacitance	CJ	4.0 V 1 MHZ	15				pF					
Typical reverse trr recovery time	I _F =0.5A,											
	trr	I _R =1.0A,		1						uS		
		$I_{RR}=0.25A$										

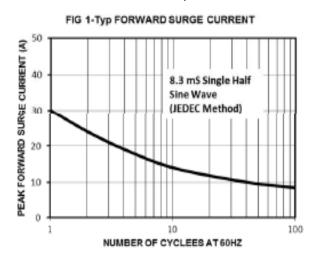
Note:

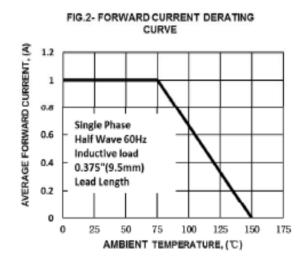
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

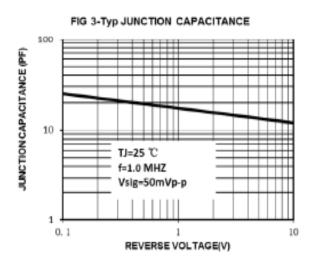


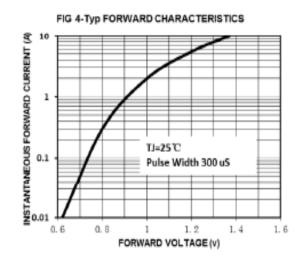
Ratings and Characteristics Curves

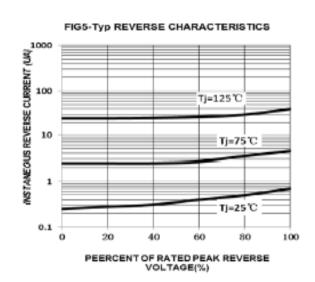
(TA = 25°C unless otherwise noted)







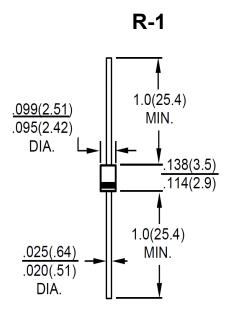






Package Outline Dimensions

in inches (millimeters)



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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