

Axial Leaded Fast Recovery Rectifiers

Features

- Pb-free and RoHS compliant
- Axial lead type devices for through hole design
- High current capability
- High surge capability
- Fast switching for high efficiency
- Glass passivation junction chip

Mechanical data

- Epoxy: UL94-V0 rated flame retardant
- Case: Molded plastic, DO-201AD
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any



Absolute maximum ratings and general electrical characteristics ($T_a = 25^{\circ}C$)										
Parameter		Symbol	MIN.	TYP.	MAX.	Unit				
Forward rectified current		lo			3.0	А				
Forward surge current (8.3ms single half sine-wave (JEDEC method)		I _{FSM}			100	А				
Diode junction capacitance		Cj		60		pF				
Reverse current	$V_{R} = V_{RRM}, T_j = 25C$	IR			5.0	μΑ				
	$V_R = V_{RRM}$, $T_j = 125$				150					
Operating junction temperature and storage temperature range		T _j , T _{stg}	-55 ~ 150 / 65 ~ 175			°C				

Absolute maximum ratings and general electrical characteristics ($T_a = 25^{\circ}C$)										
	FR301G	FR302G	FR303G	FR304G	FR305G	FR306G	FR307G			
Repetitive peak reverse voltage VRRM	50	100	200	400	600	800	1000			
RMS voltage V _{RMS}	35	70	140	280	420	560	700			
Continuous revers voltage V _R	50	100	200	400	600	800	1000			
Maximum forward voltage IF= 3.0A	1.30									
Maximum reverse recover time $I_{F=}0.5A/I_{F=}1.0A/I_{F=}0.25A$	150			250	500					





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