

原厂直销:15507595280 刘先生

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1. Description

This series are state-of-the-art devices designed for use in switching power supplies, inverters and as free wheeling diodes.

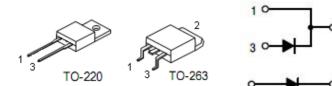
2. Features

- Ultrafast 25 nanosecond recovery time
- 175°C operating junction temperature
- Popular TO-220 package
- Epoxy meets UL 94 V-0 @ 0.125 in
- Low forward voltage
- Low leakage current
- High temperature glass passivated junction
- Reverse voltage to 650 V
- Pb-free packages are available

3. Mechanical Characteristics

- Case: epoxy, molded
- Weight: 1.9 grams (approximately)
- Finish: all external surfaces corrosion resistant and terminal
- Leads are readily solderable
- Lead temperature for soldering purposes: 260°C max for 10 seconds

4. Pin configuration



Pin (TO220)	Function
1	Cathode
3	Anode

Pin(TO263)	Function
1	Cathode
2	Cathode
3	Anode



5. Maximum ratings

Parameter	Symbol	Rating	Units
Peak repetitive reverse voltage Working peak reverse voltage DC blocking voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	650	V
Average rectified forward current Total device, (Rated VR), T _C = 150°C			А
Peak repetitive forward current (Rated VR, square wave, 20 kHz), T _C = 150°C	I _{FM}	16	А
Nonrepetitive peak surge current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	I _{FSM}	100	А
Operating junction temperature and storage temperature range	T_J, T_stg	-65 to +175	°C

6. Thermal characteristics

Parameter	Symbol	Rating	Unit
Maximum thermal resistance, junction-to-case	$R_{ heta JC}$	2.0	°C/W

7. Electrical characteristics

Parameter	Symbol	Conditions	Rating	Unit
Maximum Instantaneous Forward Voltage (Note 1)	V _F	I _F =8.0 A, T _C =25°C	1.8	٧
Maximum Instantaneous Reverse Current (Note 1)	I _R	rated DC voltage, T _J =150°C rated DC voltage, T _J =25°C	500 10	μΑ
Maximum Reverse Recovery Time	t _{rr}	I _F =1.0 A, di/dt=50 A/μs I _F =0.5 A, I _R =1.0 A, I _{REC} =0.25 A	30 25	ns

Note:1. Pulse test: pulse width = 300 μ s, Duty cycle $\leq 2.0\%$.