

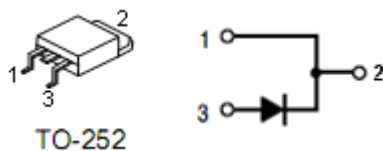
## 1. Features

- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- Metal of silicon rectifier, majority carrier conduction
- Low forward voltage, high efficiency
- Guarding for over voltage protection
- For use in low voltage, high frequency inverters
- Free wheeling, and polarity protection applications

## 2. 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
- Shipped 50 units per plastic tube

## 3. Pin configuration



Pin(TO252)	Function
1	Cathode
3	Anode

#### 4. Maximum ratings

Parameter	Symbol	Rating	Units
Peak repetitive reverse voltage Working peak reverse voltage DC blocking voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	400	V
Average rectified forward current Total device, (Rated VR), $T_C = 100^\circ\text{C}$	$I_{F(AV)}$	5.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rared load per diode	$I_{FSM}$	80	A
Operating junction temperature and storage temperature range	$T_J, T_{stg}$	-55 to +150	$^\circ\text{C}$
Maximum instantaneous forward voltage per leg $I_F=5\text{A}$	VF	$T_C = 25^\circ\text{C}$ 1.3	V
		$T_C = 125^\circ\text{C}$ 1.2	
Maximum reverse current per leg at working peak reverse voltage	IR	$T_C = 25^\circ\text{C}$ 10	uA
		$T_C = 125^\circ\text{C}$ 500	
Maximum reverse recover time (if=0.5Amp,IR=1.0Amp Irec=0.25Amp)	$T_{rr}$	50	ns

#### 5. Thermal characteristics

Parameter	Symbol	Rating	Unit
Maximum thermal resistance, junction-to-case	$R_{\theta JC}$	2.0	$^\circ\text{C/W}$
Maximum thermal resistance, junction-to-ambient	$R_{\theta JA}$	62.5	$^\circ\text{C/W}$