

1. General description

Planar passivated high commutation three quadrant triac in a SOT54 (TO-92) plastic package. This "series E" triac balances the requirements of commutation performance and gate sensitivity and is intended for interfacing with low power drivers and logic ICs including microcontrollers.

2. Features and benefits

- · 3Q technology for improved noise immunity
- · Direct triggering from low power drivers and logic ICs
- High commutation capability with sensitive gate
- High immunity to false turn-on by dV/dt
- High voltage capability
- · Planar passivated for voltage ruggedness and reliability
- Sensitive gate for easy logic level triggering
- Triggering in three quadrants only

3. Applications

- General purpose motor control
- Small loads in washing machines
- Solenoid drivers

4. Quick reference data

Table 1. Quick reference data							
Symbol	Parameter	Conditions	IV	1in	Тур	Max	Unit
V _{DRM}	repetitive peak off- state voltage		-		-	600	V
I _{T(RMS)}	RMS on-state current	full sine wave; $T_{lead} \le 54 \text{ °C}$; Fig. 1; Fig. 2; Fig. 3	-		-	1	A
Static characteristics							
I _{GT}	gate trigger current	V _D = 12 V; I _T = 0.1 A; T2+ G+; T _j = 25 °C; <u>Fig. 7</u>	1		-	10	mA
		V _D = 12 V; I _T = 0.1 A; T2+ G-; T _j = 25 °C; <u>Fig. 7</u>	1		-	10	mA
		V _D = 12 V; I _T = 0.1 A; T2- G-; T _j = 25 °C; <u>Fig. 7</u>	1		-	10	mA