

TIGER ELECTRONIC CO.,LTD

Product specification

16A TRIACS SM16JZ51

GENERAL DESCRIPTION

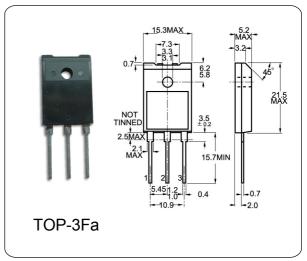
Available either in through-hole or surface-mount packages, the SM16JZ51 triac series is suitable for general purpose AC switching. They can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits... or for phase control operation in light dimmers, motor speed controllers, ...

The snubberless versions are specially recommended for use on

inductive loads, thanks to their high commutation performances. By using an internal ceramic pad,

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

PARAMETER	Symbol	Value	Unit
Repetitive peak off-state voltages	V _{DRM}	600	V
peak off-state reverse voltages	V_{RRM}	600	٧
RMS on-state current	I _⊤ 16		Α
Non-repetitive peak on-state current	I _{TSM} 150		Α
Max. Operating Junction Temperature	T _j	110	°C
Storage Temperature	T _{stg}	-45~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

PARAME	TER	Symbol	Test Conditions	Min.	Max	Unit
Repetitive peak off-state voltages		V_{DRM}	I _D =0.1mA	600	_	V
Repetitive peak current	off-state	I _{DRM}	V _{DRM} =520V	_	20	uA
On-state voltage	е	V_{TM}	I _T =22.5A		1.5	V
Holding current		I _H	I _T =1.0A,I _{GT} =50mA	_	50	mA
Gate trigger Current	T2+G+	I _{GT}	V_{AK} =12V, R_L =20 Ω	_	30	- mA
	T2+G-			_	30	
	T2-G-			_	30	
	T2-G+			_	_	
Gate trigger Voltage	T2+G+	V _{GT}	V_{D} =12V, R_{L} =20 Ω	_	1.5	- V
	T2+G-			_	1.5	
	T2-G-				1.5	
	T2-G+			_	_	•