TOSHIBA HIGH EFFICIENCY RECTIFIER SILICON EPITAXIAL TYPE

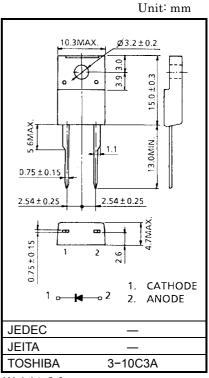
5DLZ47A

SWITCHING MODE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION

• Low Switching Losses and Low Output Noise.

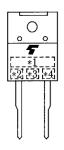
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V_{RRM}	200	V	
Average Forward Current	I _{F (AV)}	5	Α	
Peak One Cycle Surge Forward	I _{FSM}	50 (50Hz)	А	
Current (Non-Repetitive)		60 (60Hz)		
Junction Temperature	Tj	-40~150	°C	
Storage Temperature Range	T _{stg}	-40~150	°C	
Screw Torque	_	0.6	N·m	



Weight: 2.0g

MARKING



_								
	* 1	MARK	5DLZ47	TYPE	5DLZ47A			
ſ	* 2	Α						
Ī	* 3	Polarity						
	Lot Number Month (Starting from Alphabet A) Year (Last Number of the Christian Era)							

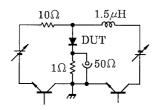
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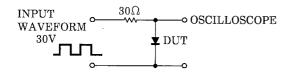
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Peak Forward Voltage		V_{FM}	I _{FM} = 5A	_	0.98	V
Repetitive Peak Reverse Current		I _{RRM}	V _{RRM} = 200V	_	10	μΑ
Reverse Recovery Time (N	lote 1)	t _{rr}	I _F = 2A, di / dt = -20A / μs	_	35	ns
Forward Recovery Time (N	lote 2)	t _{fr}	I _F = 1A	_	100	ns
Thermal Resistance		R _{th (j-c)}	DC	_	4.0	°C/W

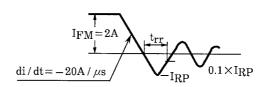
Note 1: t_{rr} TEST CIRCUIT



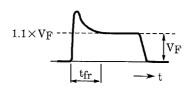
Note 2: tfr TEST CIRCUIT

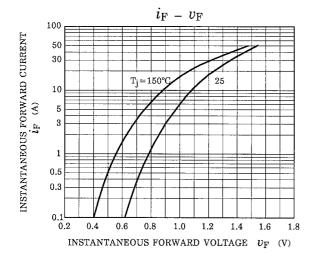


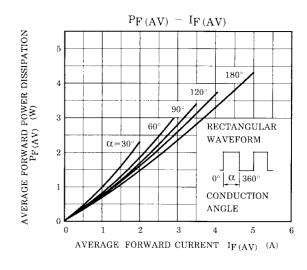
 $t_{rr}\,\mathsf{WAVEFORM}$

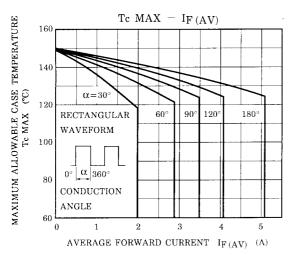


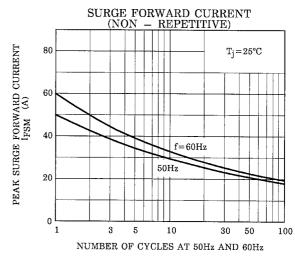
 t_{rr} WAVEFORM

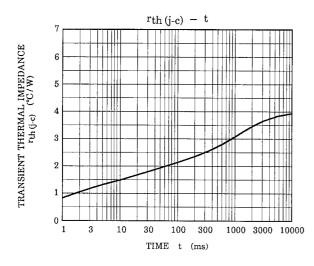


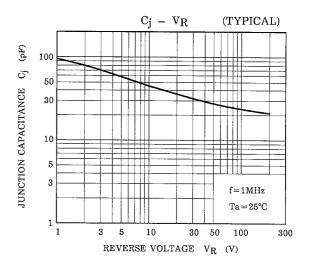












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