

TOSHIBA

5JU247

TOSHIBA SUPER FAST RECOVERY DIODE SILICON EPITAXIAL TYPE

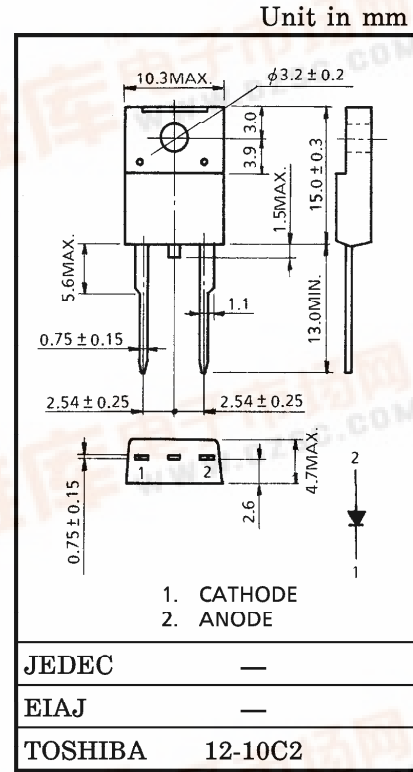
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SWITCHING TYPE POWER SUPPLY APPLICATION
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage : $V_{RRM} = 600V$
- Average Output Rectified Current : $I_O = 5A$
- Ultra Fast Reverse-Recovery Time : $t_{rr} = 100ns$
- Low Switching Losses and Low Output Noise.

MAXIMUM RATINGS

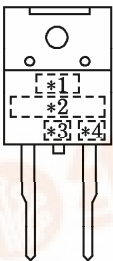
CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Average Output Rectified Current	I_O	5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	50 (50Hz) 60 (60Hz)	A
Junction Temperature	T_j	-40~150	°C
Storage Temperature Range	T_{stg}	-40~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 5A$	—	1.5	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 600V$	—	100	μA
Reverse Recovery Time	t_{rr}	$I_F = 2A, di/dt = -20A/\mu s$	—	100	ns
Forward Recovery Time	t_{fr}	$I_F = 1A$	—	200	ns
Thermal Resistance	$R_{th(j-c)}$	DC	—	4.0	°C/W

MARKING



*NUMBER	SYMBOL	MARK
*1	Toshiba Product Mark	
*2	Type Code	5JU247
*3	Polarity Mark	
*4	Lot Number □□— Month (Starting from Alphabet A) — Year (Last Number of the Christian Era)	

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TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.

