### TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

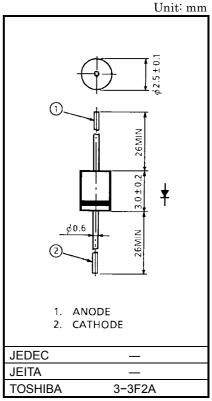
# **1JU42**

# HIGH SPEED RECTIFIER APPLICATIONS (FAST RECOVERY)

• Plastic Mold Type.

### MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	$V_{RRM}$	600	V	
Average Forward Current	I <sub>F (AV)</sub>	1.0	Α	
Peak One Cycle Surge Forward Current (Non-Repetitive)	I <sub>FSM</sub>	15 (50Hz)	А	
		17 (60Hz)		
Junction Temperature Range	Tj	-40~150	°C	
Storage Temperature Range	T <sub>stg</sub>	-40~150	°C	

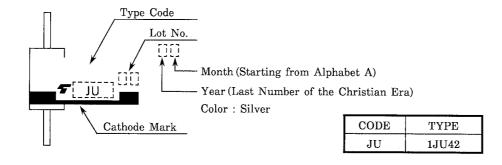


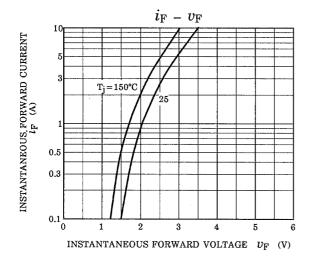
Weight: 0.18g

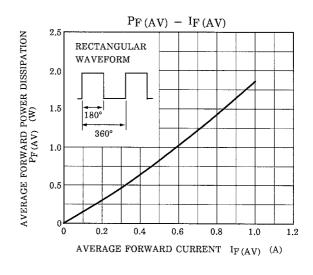
## **ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

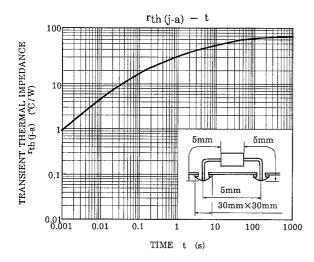
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Peak Forward Voltage	$V_{FM}$	I <sub>FM</sub> = 1.0A	_	2.0	V
Repetitive Peak Reverse Current	I <sub>RRM</sub>	V <sub>RRM</sub> = 600V	-	100	μΑ
Reverse Recovery Time	t <sub>rr</sub>	$I_F = 1.0A$ , di / dt = $-30A$ / $\mu$ s	_	100	ns
Forward Recovery Time	t <sub>fr</sub>	I <sub>F</sub> = 1.0A	_	250	ns

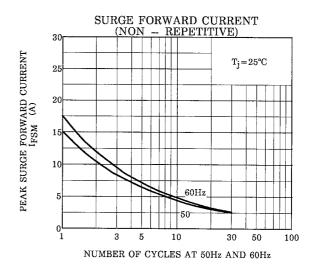
## Marking

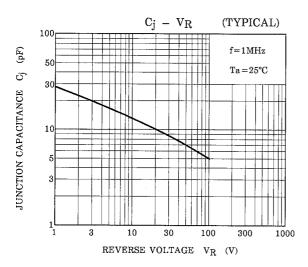




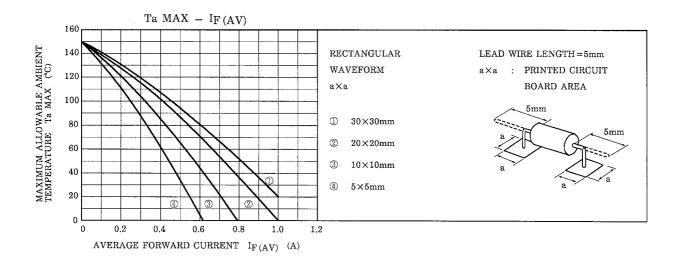


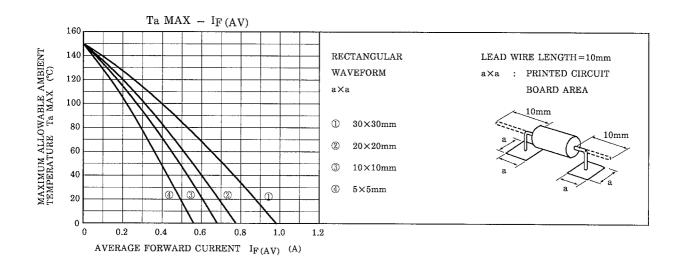






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