

TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

2FWJ42M

SWITCHING TYPE POWER SUPPLY APPLICATION

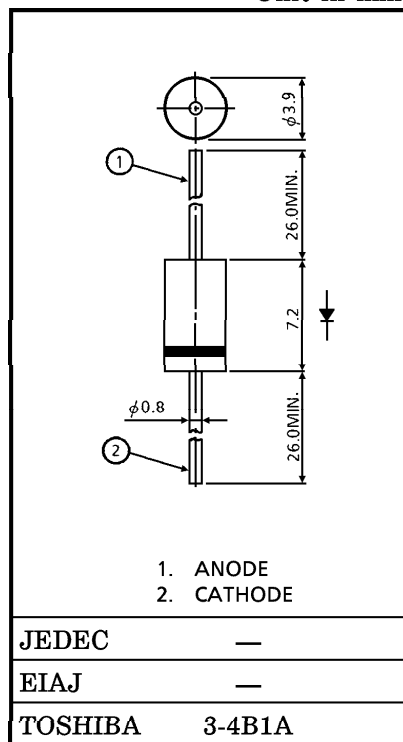
PORTABLE EQUIPMENT BATTERY APPLICATION

Unit in mm

- Repetitive Peak Reverse Voltage : $V_{RRM} = 30\text{ V}$
- Average Forward Current : $I_F(AV) = 2.0\text{ A}$
- Low Forward Voltage : $V_{FM} = 0.45\text{ V (Max.)}$
- Low Reverse Current : $I_{RRM} = 500\ \mu\text{A (Max.)}$

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Forward Current	$I_F(AV)$	2.0	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	60 (50Hz)	A
Junction Temperature	T_j	-40~125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40~125	$^\circ\text{C}$

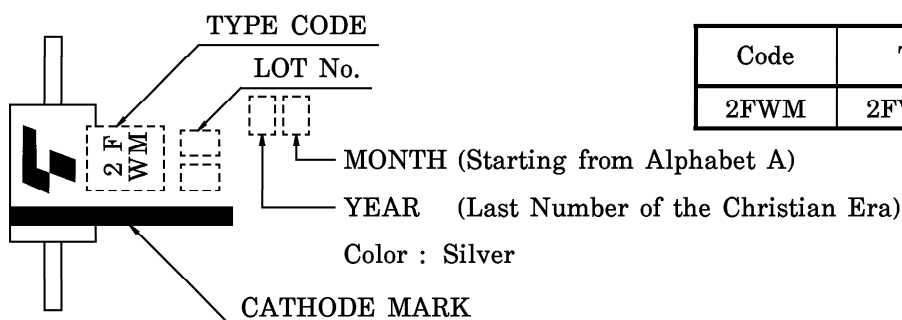


ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Weight : 0.47 g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 2.0\text{ A}$	—	—	0.45	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 30\text{ V}$	—	—	500	μA
Junction Capacitance	C_j	$V_R = 10\text{ V}, f = 1.0\text{ MHz}$	—	110	—	pF
Thermal Resistance	$R_{th(j-a)}$	On glass-epoxy substrate	—	—	100	$^\circ\text{C/W}$

MARKING



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