

TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

# 2FWJ42M

SWITCHING TYPE POWER SUPPLY APPLICATION

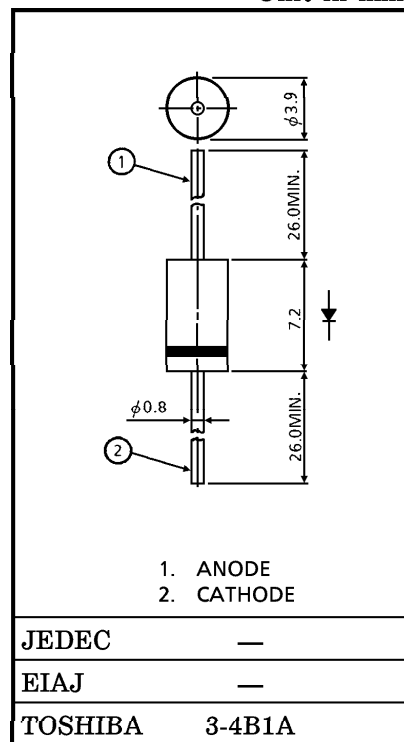
PORTABLE EQUIPMENT BATTERY APPLICATION

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	$^\circ\text{C}$

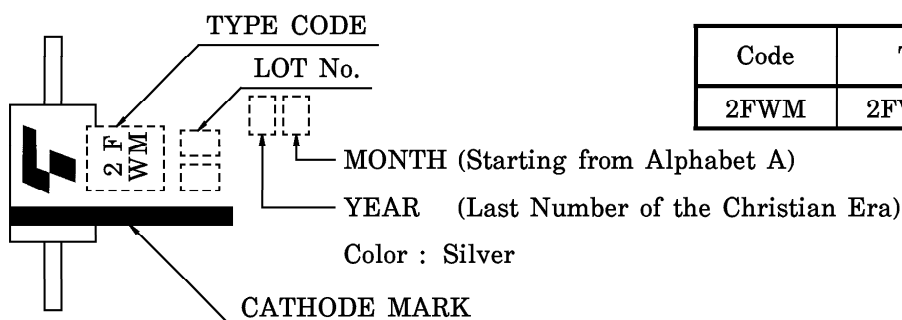


ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

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	$\mu\text{A}$
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



Code	Type
2FWM	2FWJ42M

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