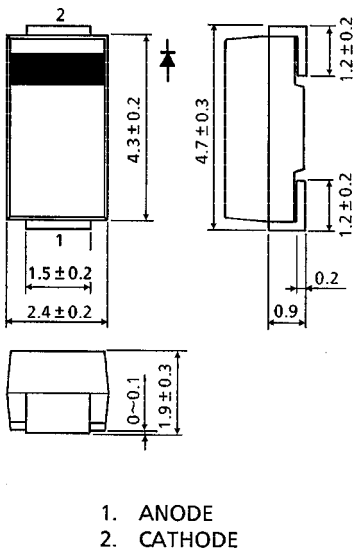
TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

U1FWJ44N

Unit: mm

HIGH SPEED RECTIFIER APPLICATIONS

- Low Forward Voltage : V_{FM} = 0.37V (Max)
- Average Forward Current : $I_{F\ (AV)}$ = 1.0A
- Repetitive Peak Reverse Voltage : V_{RRM} = 30V



JEDEC	—
JEITA	—
TOSHIBA	3−4D1A

Weight: 0.06g

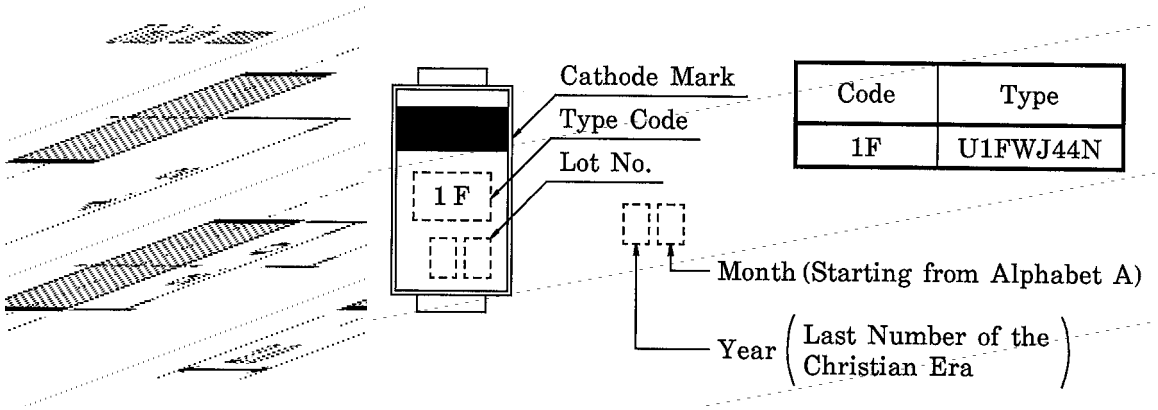
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Forward Current	$I_{F\ (AV)}$	1.0	A
Peak One Cycle Surge Forward Current (Non−Repetitive)	I_{FSM}	25 (50Hz)	A
Junction Temparature	T_j	−40~125	°C
Storage Temparature Range	T_{stg}	−40~125	°C

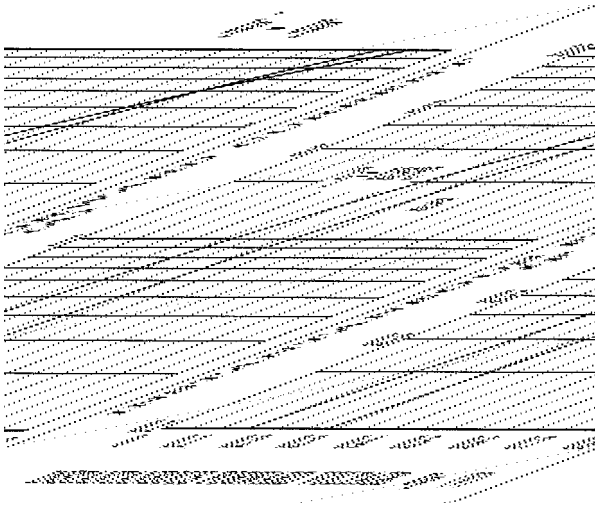
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

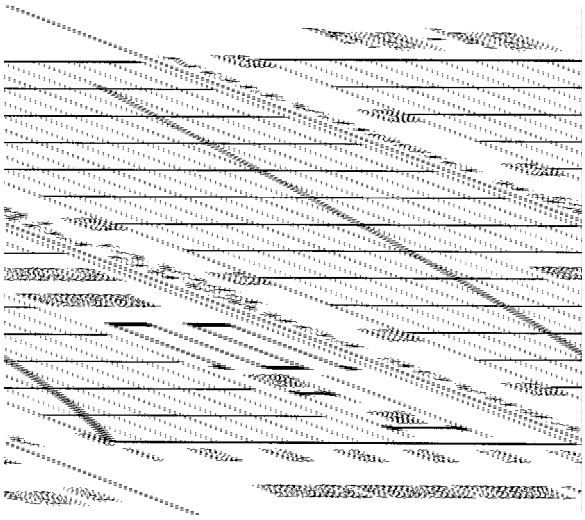
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	I_{FM} = 1.0A	—	—	0.37	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = 30V	—	—	1.5	mA
Junction Capacitance	C_j	V_R = 10V, f = 1MHz	—	62	—	pF

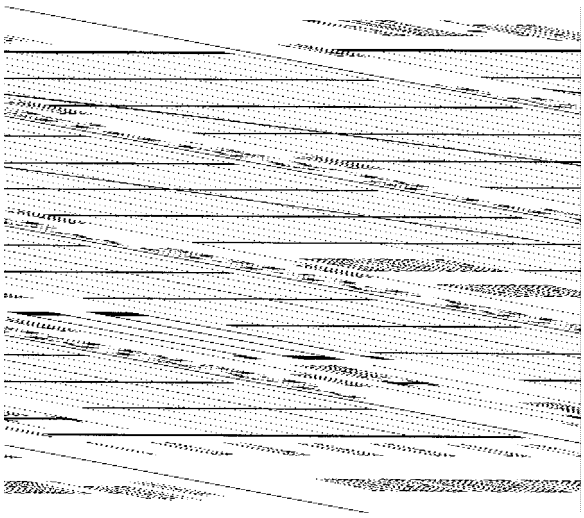
STANDARD SOLDERING PAD MARKING

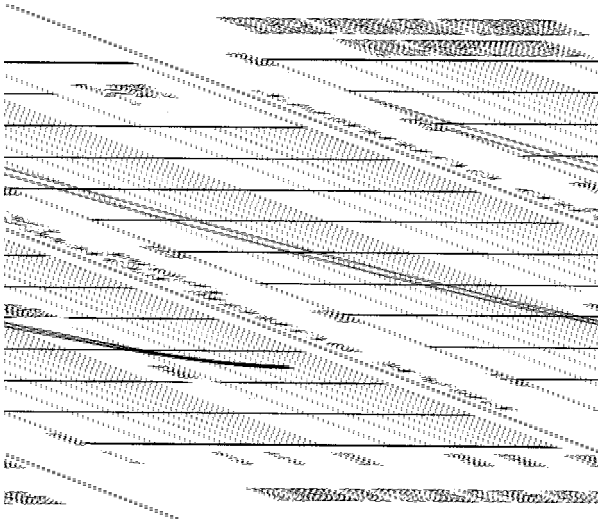


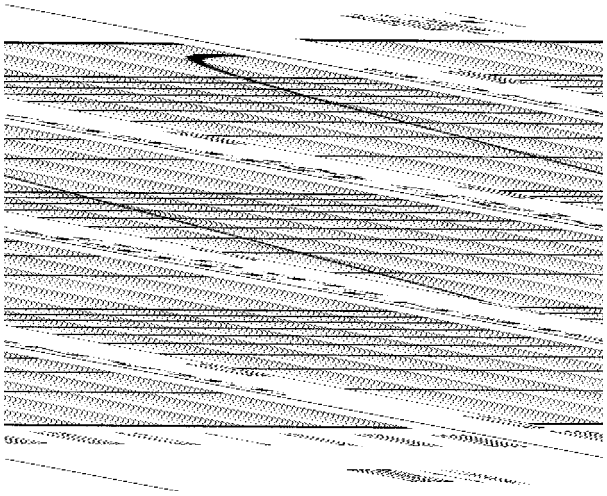
Code	Type
1F	U1FWJ44N

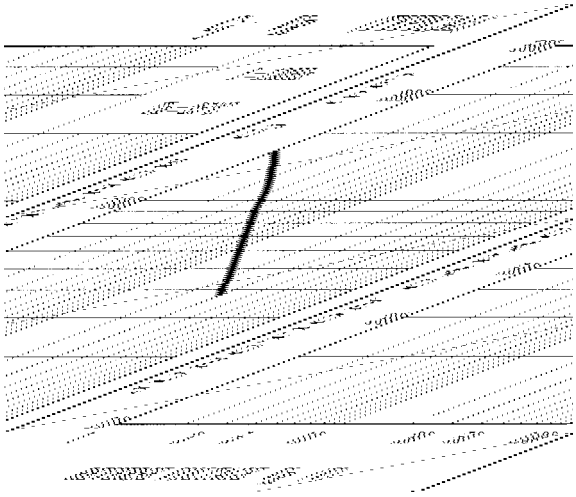


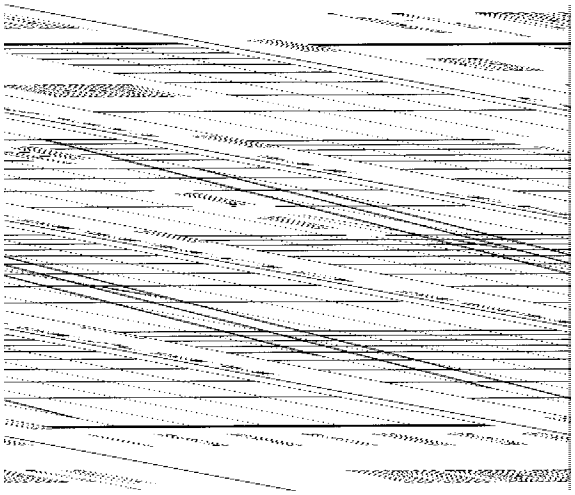


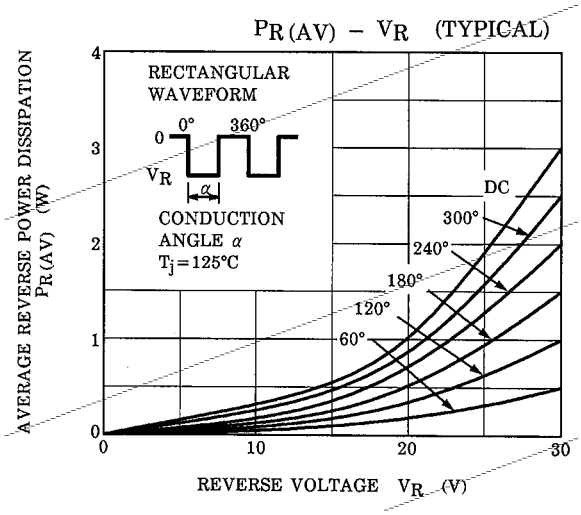











$P_{R(AV)}$ – V_R (TYPICAL)
AVERAGE REVERSE POWER DISSIPATION $P_{R(AV)}$ (W)
RECTANGULAR WAVEFORM
0°
360°
0
V_R
α
CONDUCTION ANGLE α
T_j=125°C
DC
300°
240°
180°
120°
60°
0
1
2
3
4
0
10
20
30
REVERSE VOLTAGE V_R (V)

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000707EAA

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