

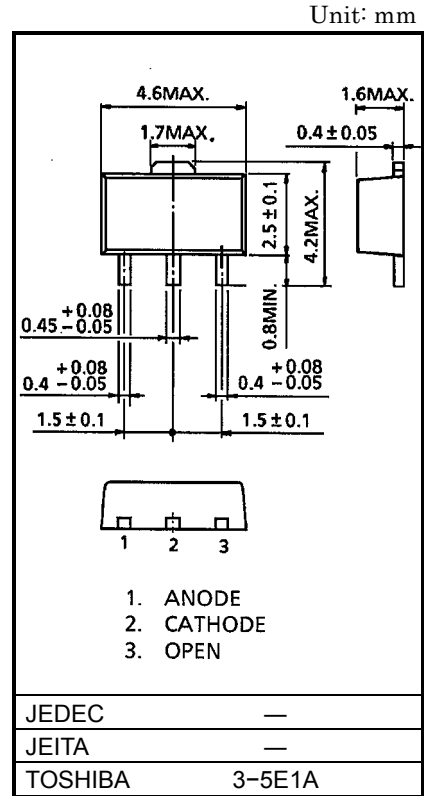
U1DL49

SWITCHING MODE POWER SUPPLY APPLICATIONS

- Repetitive Peak Reverse Voltage : $V_{RRM} = 200V$
- Average Forward Current : $I_F(AV) = 1.0A$
- Very Fast Reverse-Recovery Time: $t_{rr} = 60ns$ (Max)
- Low Forward Voltage : $V_{FM} = 0.98V$ (Max)
- Available to Reduce Switching Losses and Output Noise

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Average Forward Current	$I_F(AV)$	1.0	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	15 (50Hz)	A
		16.5 (60Hz)	
Junction Temperature	T_j	-40~150	°C
Storage Temperature Range	T_{stg}	-40~150	°C

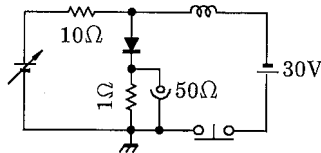


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

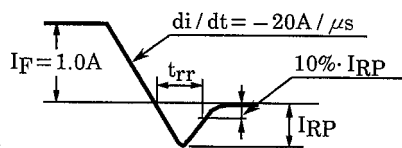
Weight: 0.05g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 1.0A$	—	—	0.98	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 200V$	—	—	10	μA
Reverse Recovery Time (Note 1)	t_{rr}	$I_F = 1A, di/dt = -20A/\mu s$	—	—	60	ns
Forward Recovery Time (Note 2)	t_{fr}	$I_F = 1.0A$	—	—	100	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	—	—	125	°C/W

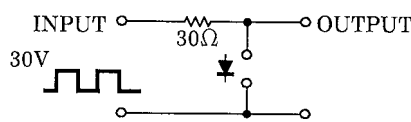
Note 1: t_{rr} TEST CIRCUIT



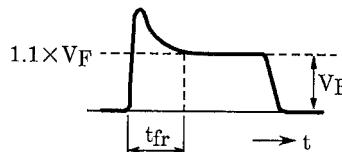
WAVEFORM



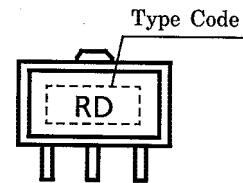
Note 2: t_{fr} TEST CIRCUIT



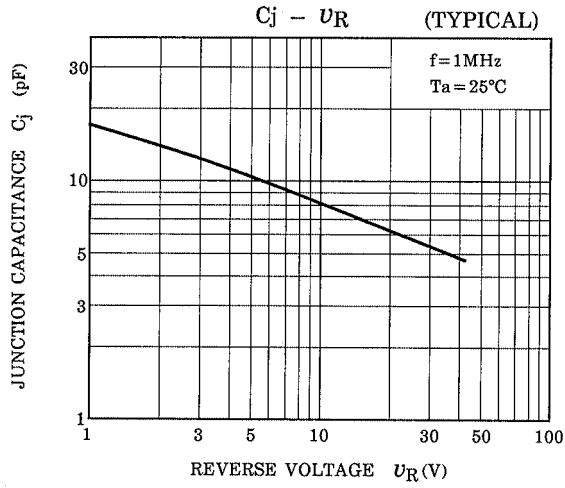
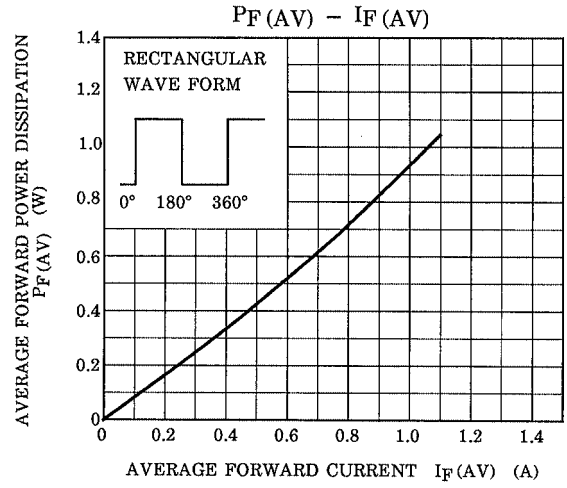
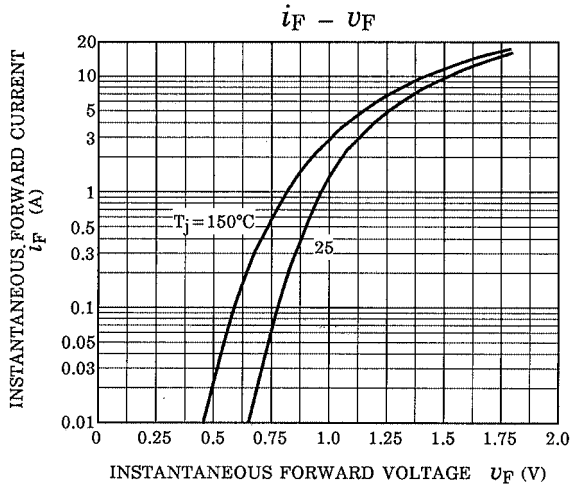
WAVEFORM



MARKING



CODE	TYPE
RD	U1DL49



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000707EAA

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