

**TAYCHIPST**

SWITCHING TYPE POWER SUPPLY APPLICATIONS

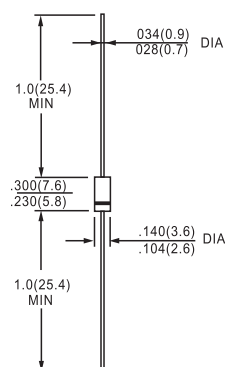
1NU41

1000V

1.0A

FEATURES

- Average Forward Current
- Reverse Recovery Time
- Low Forward Voltage



DO-15

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Average Forward Current	$I_{F(AV)}$	1.0	A
Peak One Cycle Surge Forward Current(Non-Repetitive)	I_{FSM}	10(50Hz) 11(60Hz)	A
Junction Temperature	T_j	-40~150	°C
Storage Temperature Range	T_{stg}		°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYPE	MAX	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 1.0A$	—	—	3.3	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	100	mA
Reverse Recovery Time	t_{rr}	$I_F = 1A$, $di/dt = -30A/\mu s$	—	—	100	ns
Forward Recovery Time	t_{fr}	$I_F = 1A$	—	300	—	pF
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	—	—	60	°C/W
Thermal Resistance	$R_{th(j-l)}$	Junction to Lead	—	—	34	°C/W



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TESTING AND CHARACTERISTIC CURVES 1NU41

