

**TAYCHIPST**

SWITCHING TYPE POWER SUPPLY APPLICATION

3DL41A

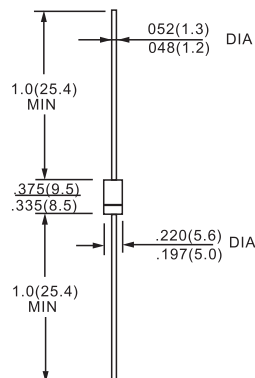
200V

3.0A

FEATURES

- Average Forward Current
- Repetitive Peak Reverse Voltage
- Very Fast Reverse-Recovery Time
- Low Forward Voltage
- Available to Raduce Switching Losses and Output Noise

DO-27



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Average Forward Current	$I_{F(AV)}$	3.0	A
Peak One Cycle Surge Forward Current(Non-Repetitive)	I_{FSM}	80(50Hz) 88(60Hz)	A
Junction Temperature	T_j	-40~150	°C
Storage Temperature Range	T_{stg}	-40~150	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYPE	MAX	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 3.0A$	—	—	0.98	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 200V$	—	—	100	uA
Reverse Recvery Time	t_{rr}	$I_F = 1A$, $di/dt = -30A/us$	—	—	35	ns
Forward Recovery Time	t_{fr}	$I_F = 1A$	—	—	100	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	—	—	57	°C/W
Thermal Resistance	$R_{th(j-l)}$	Junction to Lead	—	—	18	°C/W



TAYCHIPST

SWITCHING TYPE POWER SUPPLY APPLICATION

3DL41A

200V 3.0A

RATINGS AND CHARACTERISTIC CURVES

3DL41A

