

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- Construction utilizes void-free molded plastic technique.
- Low reverse leakage.
- High forward surge capability.
- High temperature soldering guaranteed:
250°C/10 seconds, 0.375 (9.5mm) lead length, 5 lbs. (2.3kg) tension.
- T_j is 150 °C(Max.) and T_{stg} is 175 °C(Max.) with PI glue

APPLICATIONS

- General purpose rectification of power supply application
- Consumer & automotive application

MAXIMUM RATING (Ta=25 °C)

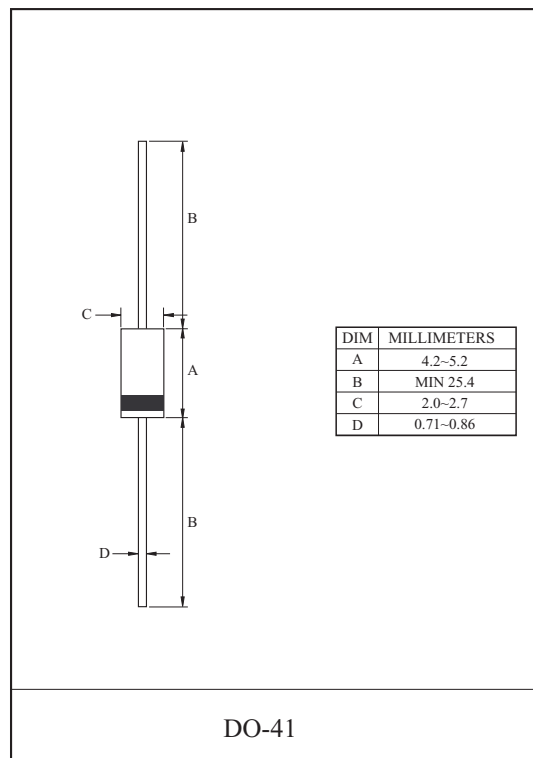
CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V _{RRM}	400	V
RMS Voltage	V _{RMS}	280	V
DC Blocking Voltage	V _{DC}	400	V
Average Forward Rectified Current	I _{F(AV)} *	1	A
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (JEDEC Method) Ta=50 °C	I _{FSM}	30	A
Operation Junction	T _j	-55 ~ 125	°C
Storage Temperature Range	T _{stg}	-55 ~ 150	°C

* 0.375 (9.5mm) lead length at Ta= 50 °C

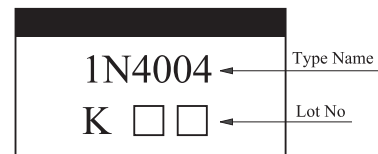
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V _F	I _F =1A	-	-	1.1	V
Leakage Current	I _R	V _{RRM} =400V	-	-	5.0	μA
		V _{RRM} =400V, Ta=100 °C	-	-	50	
Reverse Recovery Time	t _{rr}	I _{FM} =20mA, I _{FM} =1mA	-	1.0	-	μs
Junction Capacitance	C _j	V _{RM} =4.0V, f=1MHz	-	15	-	pF
Thermal Resistance	R _{th(j-a)}	Junction to ambient	-	50	-	°C / W
	R _{th(j-l)}	Junction to lead	-	25	-	

Note 1) Thermal resistance from junction to ambient at 0.375 (9.5mm) lead length P.C.B mounted.



Marking



1N4004

