

CHONGQING CLOUDCHILD TECHNOLOGY CO., LTD

DO-41 Encapsulate General Purpose Rectifier

1N4001-1N4007 General Purpose Rectifier

Features

- lo 1A.
- VRRM 50V-1000V.
- Low reverse leakage
- High surge current capability
- AEC-Q101 Qualified.

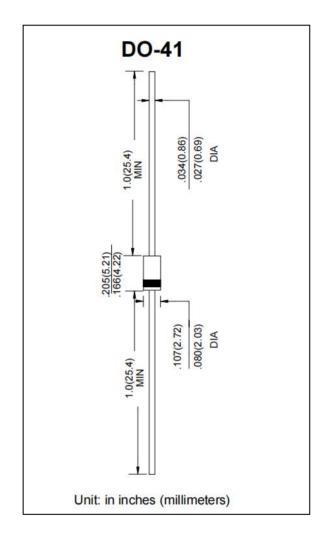
Application

Rectifier.

Marking

1N40XX

XX:From 01 To 07



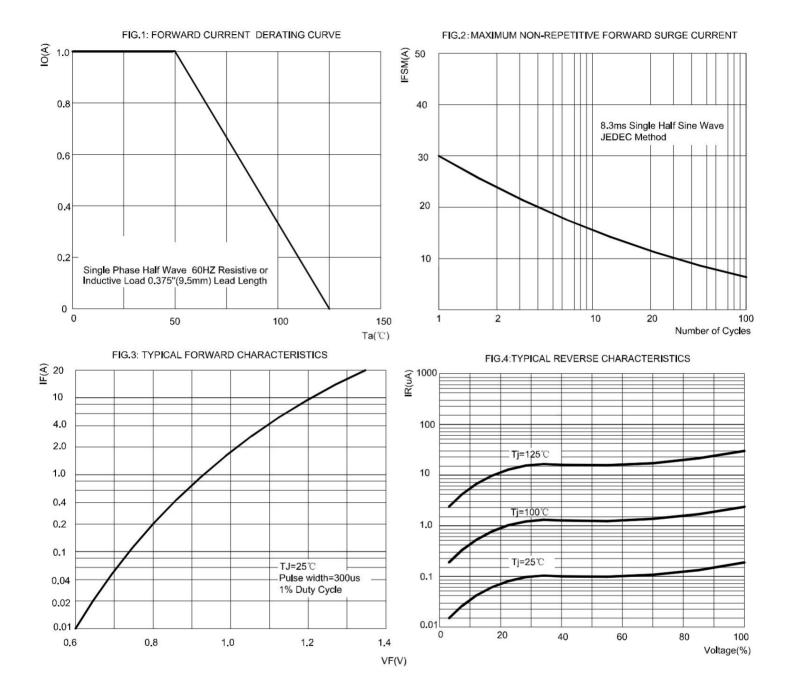
ABSOLUTE MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Parameter	Symbol	1N40						Heit	
Parameter		01	02	03	04	05	06	07	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Forward Current	l=	4							^
60Hz Half-sine wave, Resistance load, T _a =50°C	I _{F(AV)}	ı ı							Α
Non-repetitive Peak Forward Surge Current			30						Α
60Hz Half-sine wave ,1 cycle ,T _a =25℃	IFSM	30							A
Junction Temperature	TJ	-55 ~ +125			$^{\circ}\!\mathbb{C}$				
Storage Temperature	T _{STG}	-55 ~ + 150				$^{\circ}\mathbb{C}$			

ELECTRICAL CHARACTERISTICS (T_a =25 $^{\circ}$ C unless otherwise noted)

Parameter	Symbol	Test Condition		Max	Unit
Peak Forward voltage	V _{FM}	I _{FM} =1A		1.1	V
Peak Reverse Current	I _{RRM1}	V _{RM} =V _{RRM}	Ta=25°C	5	uA
Peak Reverse Current	I _{RRM2}		T _a =125℃	50	uA
Thermal Resistance	R _Ө Ј-А	Between junction and ambient		55	°C/W
(Typical)	R ₀ J-L	Between junction and lead		25	°C/W

Typical Characteristics



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Date of change	Rev#	revise content
2023/09/01	A/0	/