

CHONGQING CLOUDCHILD TECHNOLOGY CO., LTD

DO-27 Encapsulate General Purpose Rectifier

1N5400-1N5408 General Purpose Rectifier

Features

- lo 3A.
- VRRM 50V-1000V.
- Low reverse leakage
- High surge current capability
- AEC-Q101 Qualified.

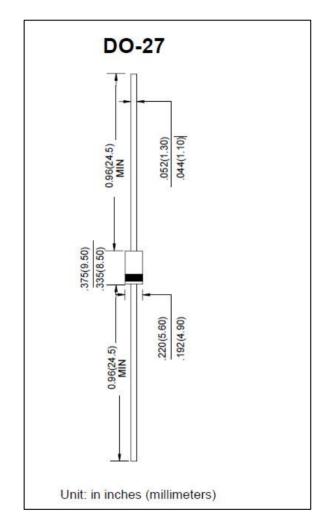
Application

Rectifier.

Marking

1N54XX

XX:From 00 To 08



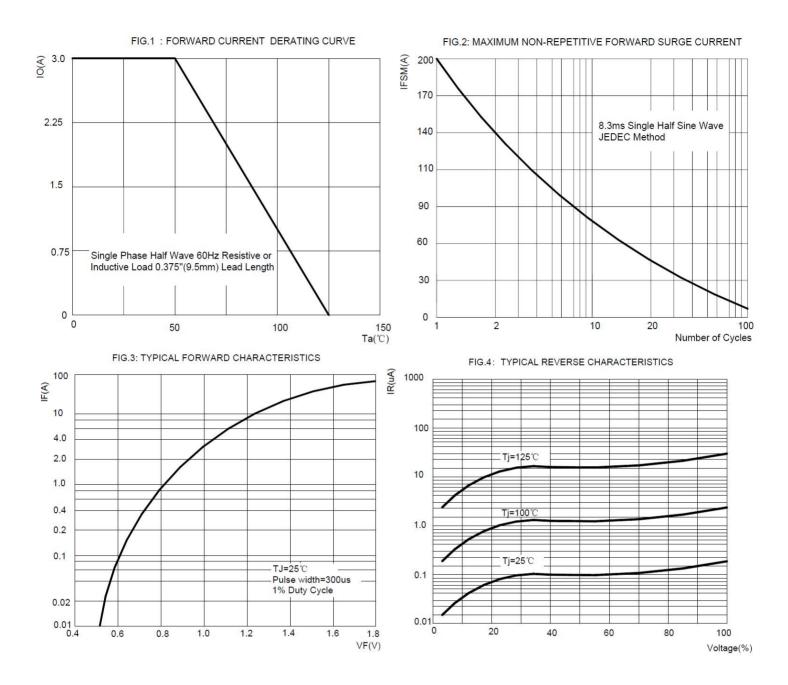
ABSOLUTE MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Parameter	Symbol	1N54								Unit	
Parameter		00	01	02	03	04	05	06	07	08	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	V
Average Forward Current											
60Hz Half-sine wave, Resistance load,	I _{F(AV)}	3							Α		
T _a =50°C											
Non-repetitive Peak Forward Surge Current	l=a	200								A	
60Hz Half-sine wave ,1 cycle ,Ta =25℃	IFSM	200							^		
Junction Temperature	TJ	-55 ~ +125							$^{\circ}$		
Storage Temperature	Tstg	-55 ~ +150							°C		

ELECTRICAL CHARACTERISTICS (T₂=25°C unless otherwise noted)

Parameter	Symbol	Test Condition		Max	Unit
Peak Forward voltage	V _{FM}	I _{FM} =3A		1.1	V
Peak Reverse Current	I _{RRM1}	V _{RM} =V _{RRM}	T _a =25℃	5	uA
	I _{RRM2}		T _a =125℃	50	uA
Thermal Resistance	R _{0J-A}	Between junction and ambient		Between junction and ambient 20	
(Typical)	R _{0J-L}	Between junction and lead		10	°C/W

Typical Characteristics



NOTICE

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