

POWER DIODE 25NA/25RA



DO4

FEATURES

- 👉 Available in Normal & Reverse Polarity
- 👉 All Diffused Series
- 👉 Industrial Grade
- 👉 Available in Avalanche Characteristic

TYPICAL APPLICATIONS

- 👉 Power supplies
- 👉 Machine tool controls
- 👉 Battery chargers
- 👉 Welders
- 👉 Generator

POWER DIODE
25NA/25RA



TECHNICAL DATA

DEVICE TYPE	V _{RRM} (V)	V _{RSM} (V)
25NA/RA40	400	500
25NA/RA120	1200	1300
25NA/RA160	1600	1700

SYMBOL	CONDITIONS	VALUES
I _{F(AV)}	Maximum average forward Current T _c = 140°C	25A
V _{FM}	Maximum peak forward Voltage drop @ Rated I _{F (Peak)}	1.35 V
I _{FSM}	Maximum peak one cycle (non-rep.) surge current 10 msec	400 A
I ² t	Max. I ² t rating (non-rep.) for 10 msec	800 A ² Sec
I _{RRM}	Peak reverse current at T _{vj} = 175°C	4 mA
V ₀	T _{vj} =max	0.80 V
R ₀	T _{vj} =max	6.00 mΩ
R _{th(j-c)}	Maximum thermal resistance (Junction to case)	1.5 °C/W
R _{th(c-h)}	Maximum thermal resistance (Case to heat sink)	0.50 °C/W
T _{vj}	Junction temperature	150 °C
T _{stg}	Storage temperature	160 °C
Mounting torque		2 Nm
Weight	Approx.	10 gms
Package Outline		A

Available with pigtail on request

POWER DIODE 25NA/25RA

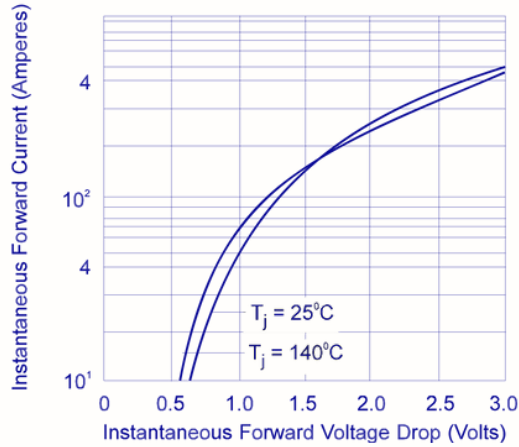


FIG. 1 forward voltage drop vs. forward current

FIG. 2 average forward current vs. case temperature

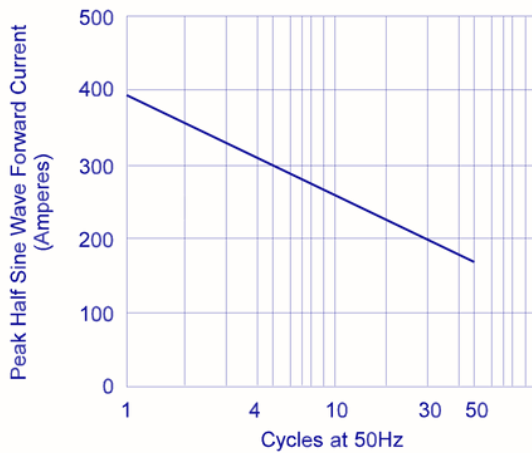
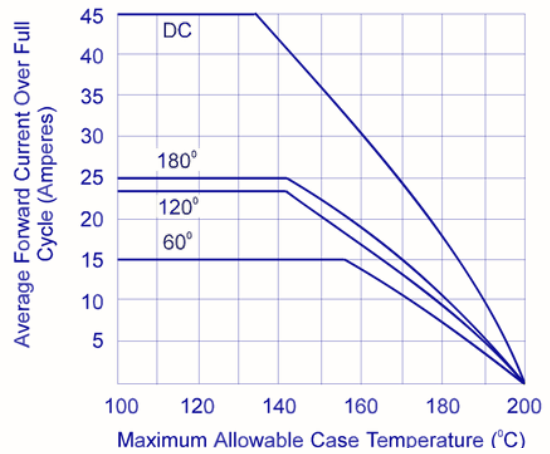


FIG. 3 maximum non recurrent surge current

POWER DIODE 25NA/25RA

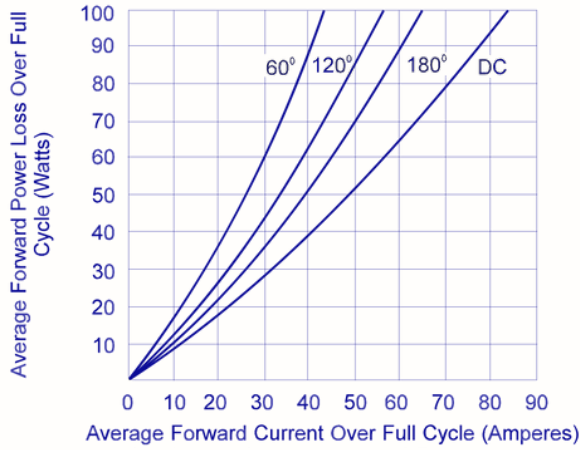


FIG. 4 maximum forward power loss vs. forward current

FIG. 5 transient thermal impedance

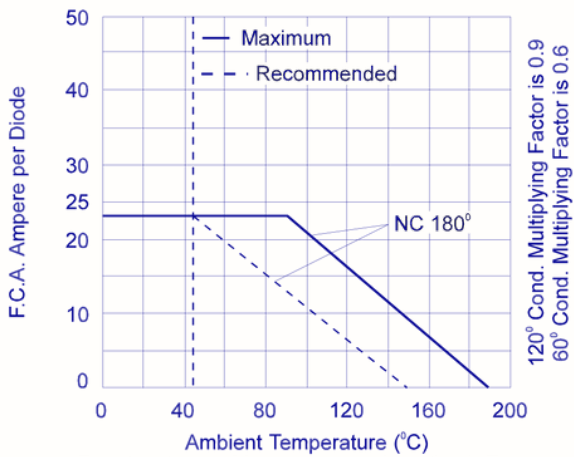
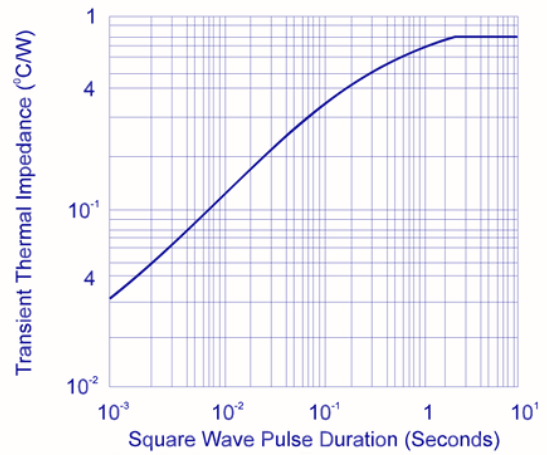


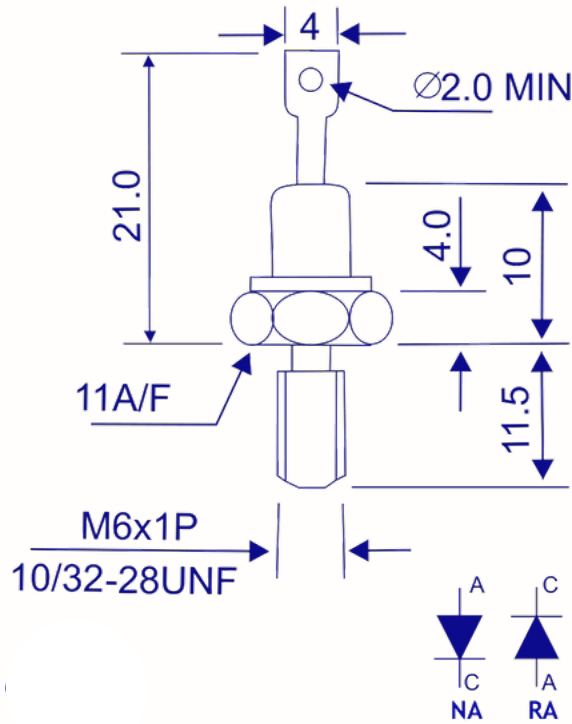
FIG. 6 diode mounted on heat sink
type K3 with θ_{HA} 2.8°C / W

POWER DIODE
25NA/25RA

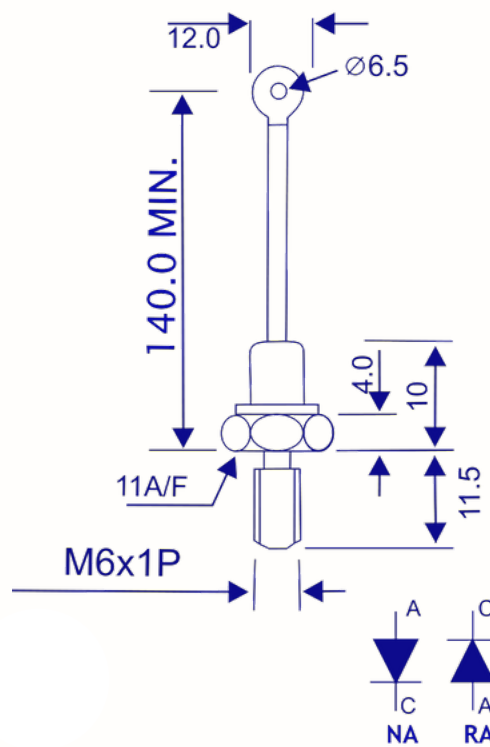


PACKAGE OUTLINE

WOL



WL



all dimensions in mm