

POWER DIODE

410NU/RU



FEATURES

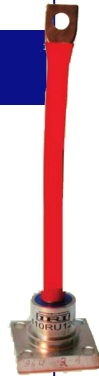
- ☞ **Available in Normal & Reverse Polarity**
- ☞ **All Diffused Series**
- ☞ **Industrial Grade**
- ☞ **Solder contact device**

TYPICAL APPLICATIONS

- ☞ **Power Supplies**
- ☞ **Machine Tool Controls**
- ☞ **Battery Chargers**
- ☞ **Welders**

POWER DIODE

410NU/RU



TECHNICAL DATA

DEVICE TYPE

V_{RRM}
(V)

V_{RSM}
(V)

410NU/RU120	1200	1300
410NU/RU160	1600	1700
410NU/RU180	1800	1900

SYMBOL	CONDITIONS	VALUES
$I_{F(AV)}$	Maximum average forward Current $T_c = 120^{\circ}C$	410A
V_{FM}	Maximum peak forward Voltage drop @ 1050 AP	1.15 V
I_{FSM}	Maximum peak one cycle (non-rep.) surge current 10 msec	7000 A
I^2t	Max. I^2t rating (non-rep.) for 10 msec	245000A ² Sec
I_{RRM}	Peak reverse current at $T_{vj} = 175^{\circ}C$	50 mA
V_0 R_0	$T_{vj} = \text{max}$ $T_{vj} = \text{max}$	0.78 V 0.38 m Ω
$R_{th(j-c)}$ $R_{th(c-h)}$ T_{vj} T_{stg}	Maximum thermal resistance (Junction to case) Maximum thermal resistance (Case to heat sink) Junction temperature Storage temperature	0.15 $^{\circ}C/W$ 0.02 $^{\circ}C/W$ 180 $^{\circ}C$ 180 $^{\circ}C$
Mounting torque		15 Nm/Per Bolt
Weight	Approx.	700 gms
Package Outline		U

POWER DIODE
410NU/RU

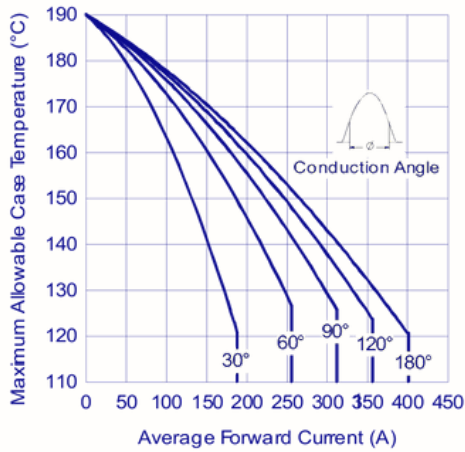


FIG. 1 current ratings characteristics

FIG. 2 current ratings characteristics

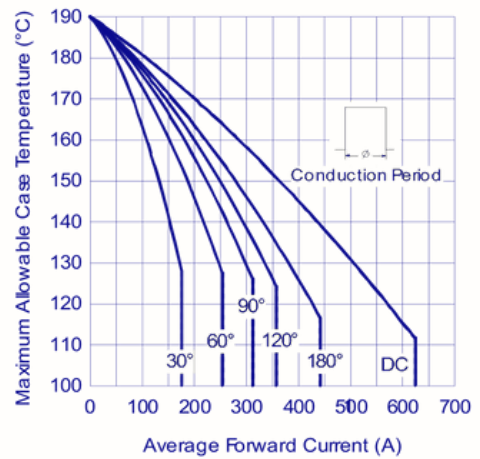


FIG. 3 thermal impedance Z_{thJC} characteristics

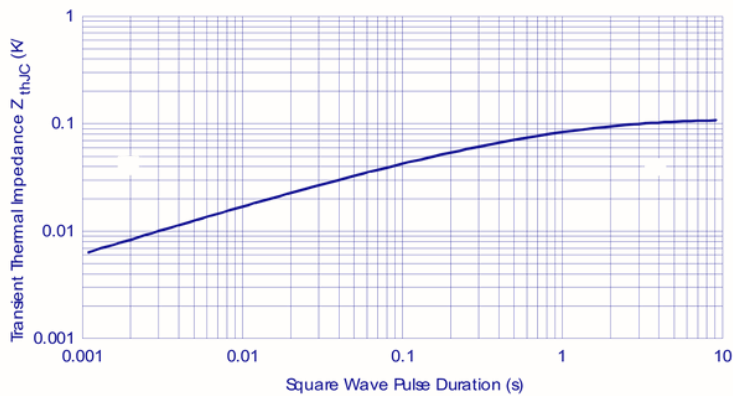


Fig. 3 - Thermal Impedance Z_{thJC} Characteristic

POWER DIODE
410NU/RU

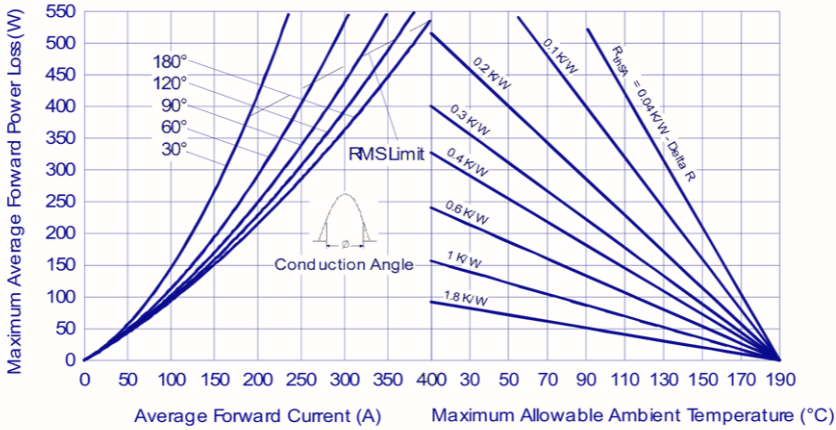


FIG. 4 forward power loss characteristics

FIG. 5 forward power loss characteristics

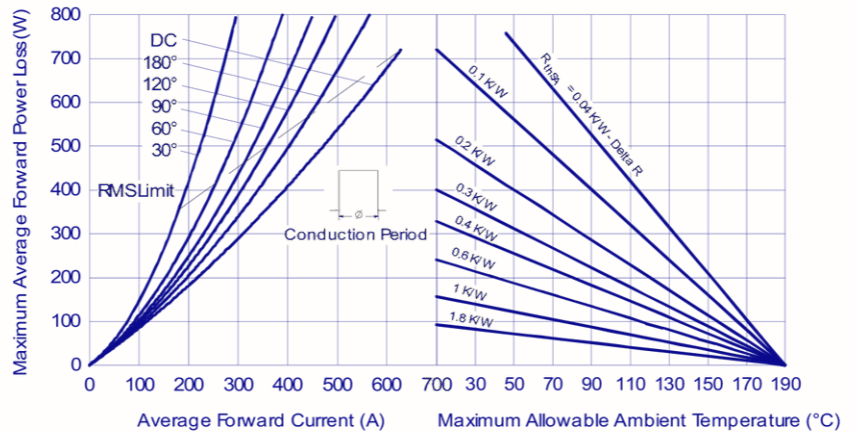
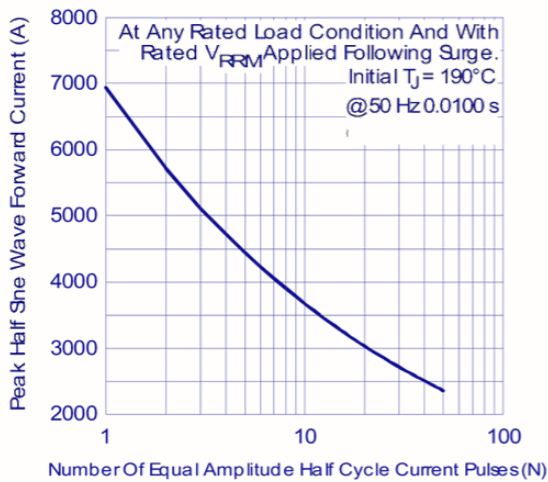


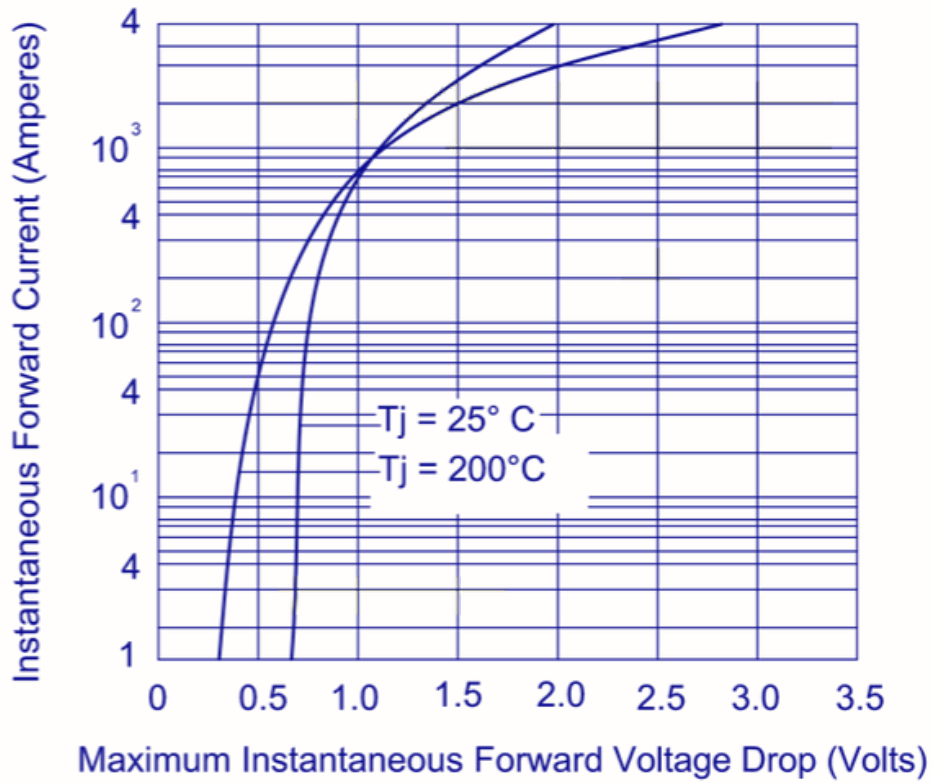
FIG. 6 maximum non-repetitive surge current



POWER DIODE
410NU/RU



FIG. 7 forward voltage drop vs. forward current





PACKAGE OUTLINE

