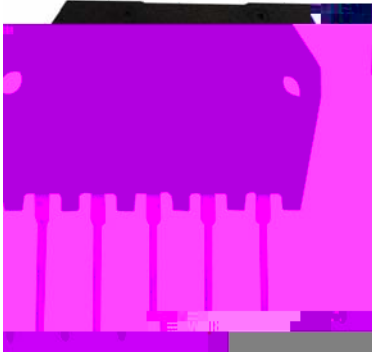


## Three Phase Bridge Rectifiers

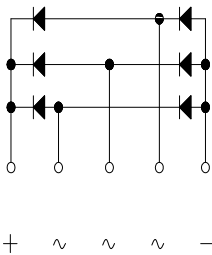


### Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

### Typical Applications

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.



### Mechanical Data

- Package:** TSB-5
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity:** As marked on body

### Maximum Ratings (T<sub>a</sub>=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	DF25NA80
Current Surge Time 4ms @ t <sub>0.8</sub> 3ms T <sub>A</sub> 125°C rating of per diode	I <sup>2</sup> t	A <sup>2</sup> S	664
Dielectric strength @terminals to case, AC 1 minute	V <sub>dis</sub>	KV	2.5
Mounting torque @recommend torque 5kg cm	T <sub>or</sub>	kg cm	8
Storage Temperature	T <sub>stg</sub>		-55 ~ +150
Junction Temperature	T <sub>j</sub>		-55 ~ +150



# DF25NA80 THRU DF25NA160

## Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	DF25NA80	DF25NA100	DF25NA120	DF25NA160
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	IFM=12.5A	1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>R</sub>	μA	T <sub>j</sub> =25	5			
			T <sub>j</sub> =125	500			
Typical junction capacitance	C <sub>j</sub>	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	230		240	

## Thermal Characteristics $T_a=25$ Unless otherwise specified

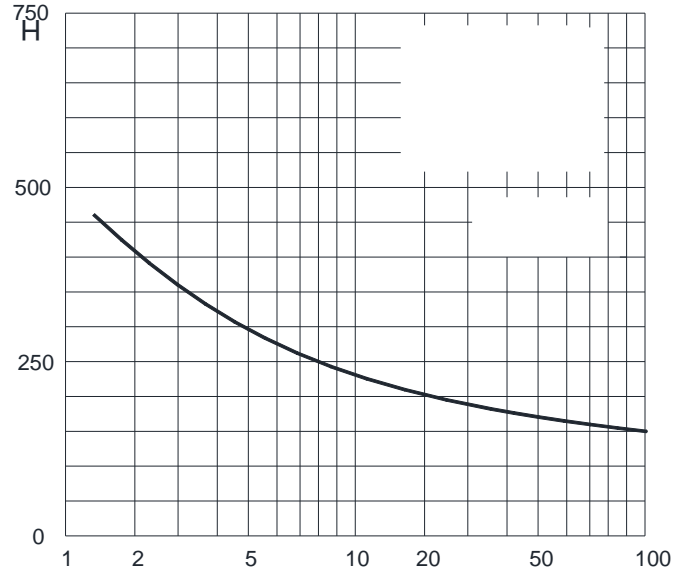
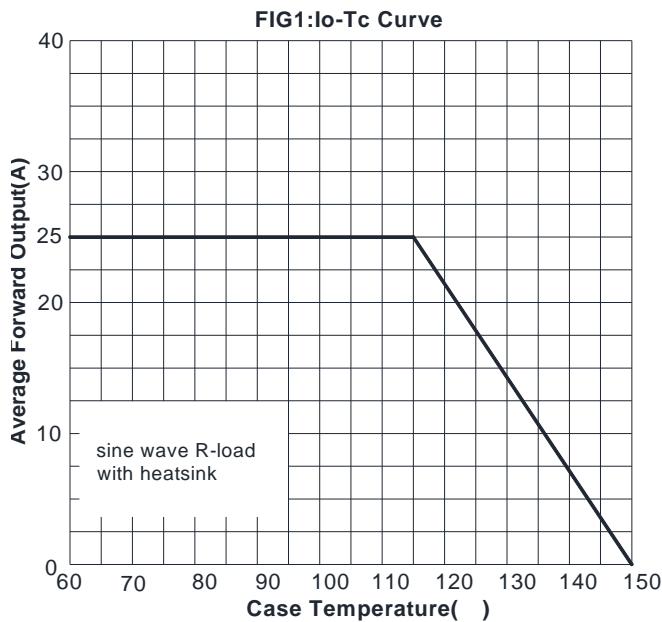
PARAMETER	SYMBOL	UNIT	DF25NA80	DF25NA100	DF25NA120	DF25NA160
Thermal Resistance Between junction and case, With heatsink	R <sub>J-C</sub>	/W	1.2			

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

## Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DF25NA80 ~ DF25NA160	Approximate 15.8	96	96	576	Paper Box

## Characteristics(Typical)







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