

Single Phase 4.0Amp Glass passivated Bridge Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

Mechanical Data

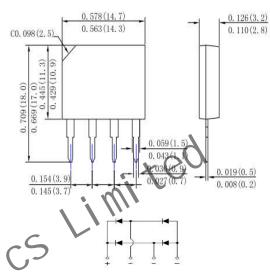
Case: Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

GBP







Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless others
for capacitive load current descriptions. Ratings at 25℃ ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,

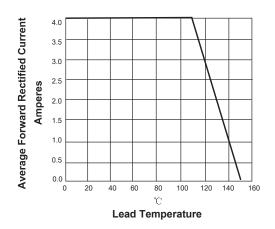
Parameter	SYMBOLS	ARDGBP 4005FX0	ARDGBP 401FX0	ARDGBP 402FX0	ARDGBP 404FX0	ARDGBP 406FX0	ARDGBP 408FX0	ARDGBP 410FX0	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current with heatsink	l(AV)	4.0							Α
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	120.0							А
Rating for fusing (t=8.3ms, Ta=25°C)	l ² t	59.8							A^2 s
Maximum instantaneous forward voltage at 4.0A	VF	1.10							V
Maximum DC reverse current T A =25°C at rated DC blocking voltage TA=125°C	lR	5.0 500							uА
Typical junction capacitance (Note 1)	C¹	38.0							pF
Typical thermal resistance	RqJA	55.0							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.



Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT



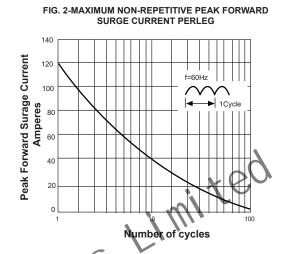


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

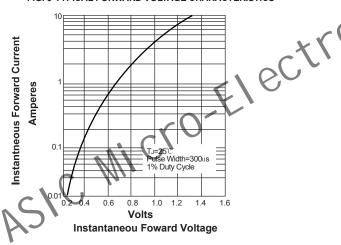
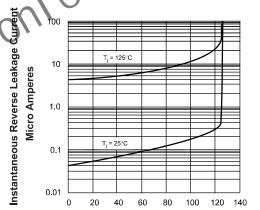


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage(%)