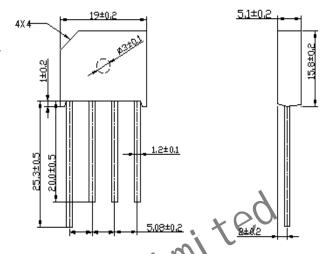


4.0A Single-Phase Silicon Bridge Rectifier

Features

- Ideal for printed circuit board mounting
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed 260℃/5 seconds at 5 lbs (2.3kg) tension



Dimensions in inches and (milimeters)

Mechanical Data

Case: Reliable low cost construction utilizing

molded plastic technique

Terminals: Plated leads solderable per MIL-STD-202,

Method 208 Mounting Position: Any

Maximum Ratings & Thermal Characteristics
Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%.

Parameter	Symbol	ARDKBL 4005SX0	ARDKBL 4015X0	ARDKBL 402SX0	ARDKBL 404SX0	ARDKBL 406SX0	ARDKBL 408SX0	ARDKBL 410SX0	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input 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 output current at TC=100°C (with heatsink)	IF(AV)	4.0							А
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	135							А
Rating for fusing (t<8.3ms)	I ² t	95							A ² sec
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							$^{\circ}$

Electrical Characteristics

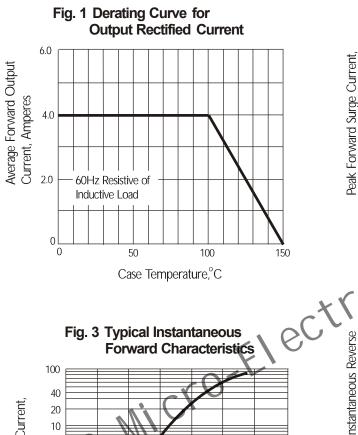
Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz. For Capacitive load derate by 20 %.

Parameter	Symbol	ARDKBL 4005SX0	ARDKBL 401SX0	ARDKBL 402SX0	ARDKBL 404SX0	ARDKBL 406SX0	ARDKBL 408SX0	ARDKBL 410SX0	Unit
Maximum instantaneous forward voltage drop per leg at 4.0A	VF				1.1				V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR	10 500						μΑ	

Notes: (1)Thermal resistance from Junction to Ambemt on P.C.board mounting.



Rating and Characteristic Curves (TA=25°C Unless otherwise noted)



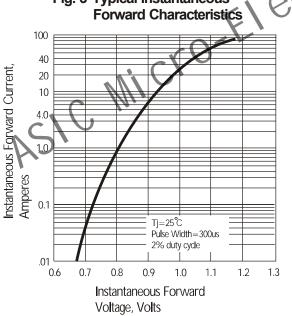
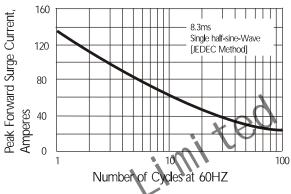


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current



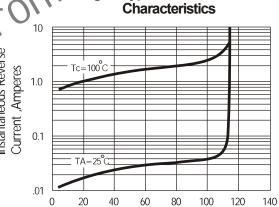


Fig. 4 Typical Reverse

Percent of Rated Peak Reverse Voltage, %