



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

ABK12S
THRU
ABK120S

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

VOLTAGE RANGE - 20 to 200 Volts

CURRENT - 1.0 Ampere

FEATURES

- *High surge current capability
- * Ideal for printed circuit board

MECHANICAL DATA

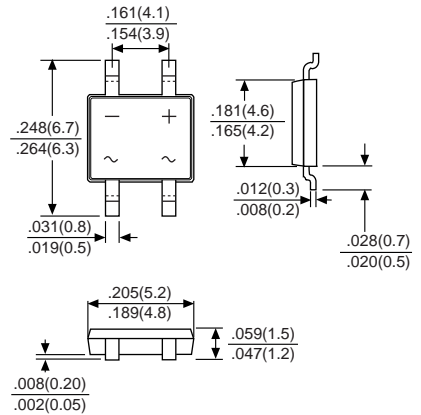
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting position: Any
- * Weight: 0.09 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



ABS



Dimensions in inches and (millimeters)

	SYMBOL	ABK12S	ABK14S	ABK16S	ABK18S	ABK110S	ABK115S	ABK120S	UNITS	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	40	60	80	100	150	200	Volts	
Maximum RMS Bridge Input Voltage	VRMS	14	28	42	56	70	105	140	Volts	
Maximum DC Blocking Voltage	VDC	20	40	60	80	100	150	200	Volts	
Maximum Average Forward Output Current at TA=75°C (Note 1)	Io	1.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	40			30				Amps	
Maximum DC Forward Voltage Drop per Bridge Element at 1.0A DC	VF	0.55		0.70	0.85		0.90		Volts	
Maximum Reverse Current at rated DC Blocking Voltage per element	IR	@ TA = 25°C			0.2		0.1		mAmps	
		@ TA = 125°C			10					
Typical Junction Capacitance (Note 2)	Cj	110								pF
Typical Thermal Resistance (Note 3)	RθJA	110								°C/W
Operating and Storage Temperature Range	TJ,TSTG	-50 to + 150								°C

- NOTES: 1. Mounted on P.C. board with 4x(5x5mm²) copper pad.
2. Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.
3. Thermal resistance junction to ambient.

RATING AND CHARACTERISTIC CURVES (ABK12S THRU ABK120S)

FIG. 1
MAXIMUM NON-REPETITIVE SURGE CURRENT

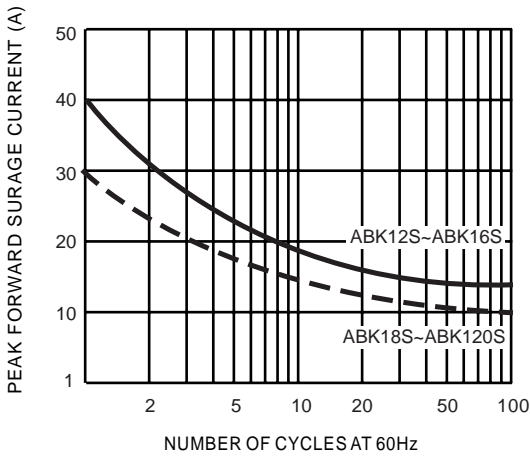


FIG. 2
DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

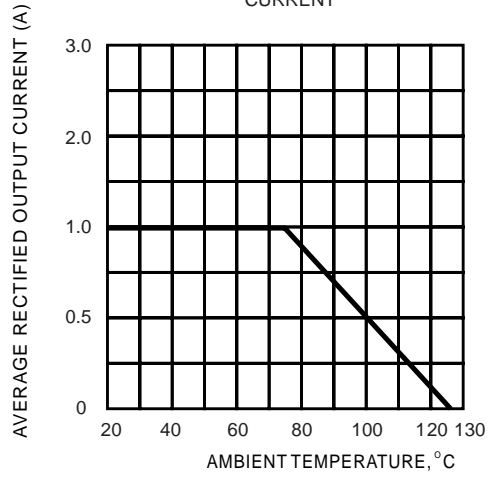


FIG. 3
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

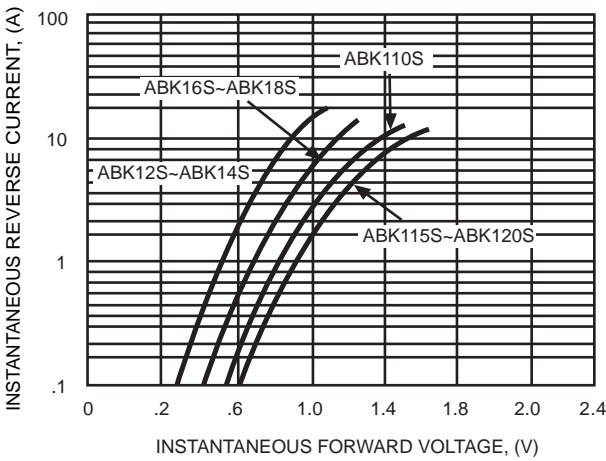
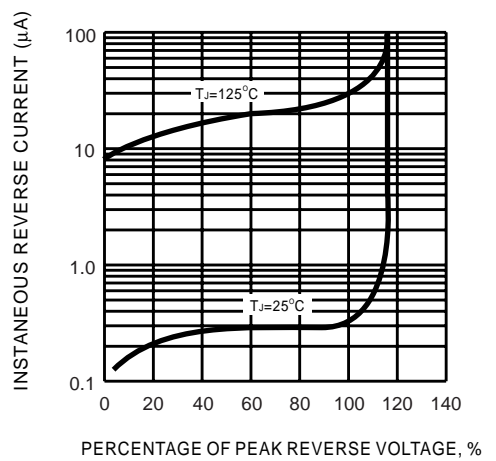


FIG. 4
TYPICAL REVERSE CHARACTERISTICS



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