

UNISONIC TECHNOLOGIES CO., LTD

JK4045-P180

Preliminary

DIODE

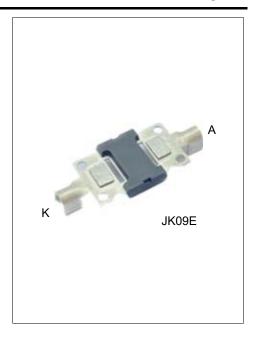
SCHOTTKY BYPASS DIODE MODULE

■ FEATURES

- * High frequency operation
- * Low forward voltage drop
- * High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- * Guard ring for enhanced ruggedness and long term reliability



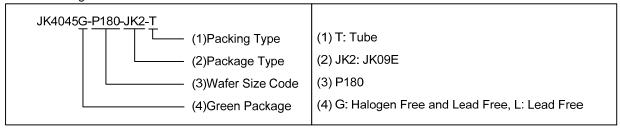




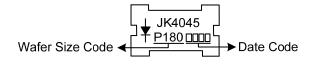
ORDERING INFORMATION

	Ordering Number		Daalaaaa	Pin Assignment		Da alsinan	
	Lead Free	Halogen Free	Package	1	2	Packing	
J	K4045L-P180-JK2-T	JK4045G-P180-JK2-T	JK09E	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING



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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

PARAMETER	SYMBOL RATINGS		UNIT	
DC Blocking Voltage	V_{RM}	45	V	
Working Peak Reverse Voltage	V_{RWM}	45	V	
Peak Repetitive Reverse Voltage	V_{RRM}	45	V	
Average Rectified Output Current	1.	40	Α	
@ 60Hz Haif Sine-Wave, R-Load	10	I _O 40		
Non-Repetitive Peak Forward Surge Current	leau	400	Α	
@ 60Hz Haif Sine-Wave, 1 Cycle	I _{FSM} 400		A	
Operating Junction Temperature	TJ	-55 ~ +150	°C	
Storage Temperature	T _{STG}	-55 ~ + 150	°C	

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL CHARACTERISTICS (PER LEG)

PARAMETER	SYMBOL	RATINGS	UNIT
Typical Thermal Resistance	θις	1.0	°C/W

■ ELECTRICAL CHARACTERISTICS (PER LEG) (T_A=25°C unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)R}$	I _R =0.50mA	45			V
Maximum Instantaneous Forward Voltage Drop per Diode (T _J =25°C)	VF	I _F =40A			0.55	٧
M : DOD 0 11D11D0	I _{RRM}	V _R =45V, T _J =25°C			0.1	mA
Maximum DC Reverse Current at Rated DC		V _R =45V, T _J =100°C			12	mA
Blocking Voltage Per Diode		V _R =45V, T _J =125°C			55	mA

Note: Pulse Test: Pulse width $\leq 300\mu s$, Duty cycle $\leq 2\%$.

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