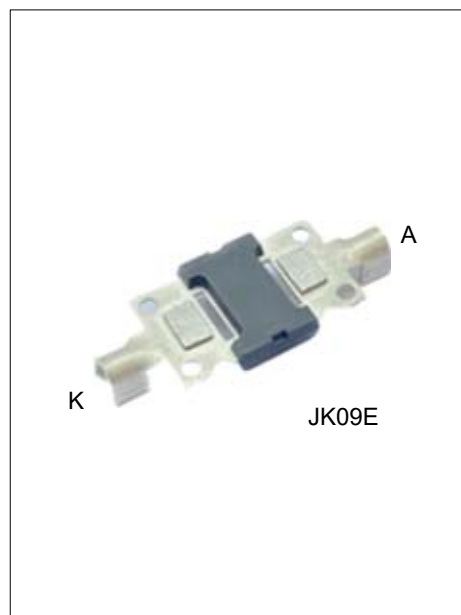


**JK5045-P150D**

Preliminary

DIODE**SCHOTTKY BYPASS DIODE
MODULE****■ FEATURES**

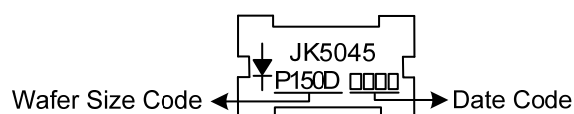
- * High frequency operation
- * Low forward voltage drop
- * High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- * Guard ring for enhanced ruggedness and long term reliability

■ SYMBOLK —  — A**■ ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
JK5045L-P150D-JK2-T	JK5045G-P150D-JK2-T	JK09E	K	A	Tube

Note: Pin Assignment: A: Anode K: Cathode

JK5045G-P150D-JK2-T	
(1) Packing Type	(1) T: Tube
(2) Package Type	(2) JK2: JK09E
(3) Wafer Size Code	(3) P150D
(4) Green Package	(4) G: Halogen Free and Lead Free, L: Lead Free

■ MARKING

■ 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 @ 60Hz Half Sine-Wave, R-Load	I _O	50	A
Non-Repetitive Peak Forward Surge Current @ 60Hz Half Sine-Wave, 1 Cycle	I _{FSM}	700	A
Operating Junction Temperature	T _J	-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	θ _{JC}	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)	V _F	I _F =50A			0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Diode	I _{RRM}	V _R =45V, T _J =25°C			0.1	mA
		V _R =45V, T _J =100°C			18	mA
		V _R =45V, T _J =125°C			70	mA

Note: Pulse Test: Pulse width ≤ 300μs, Duty cycle ≤ 2%.

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