



JK3045-P150



DIODE

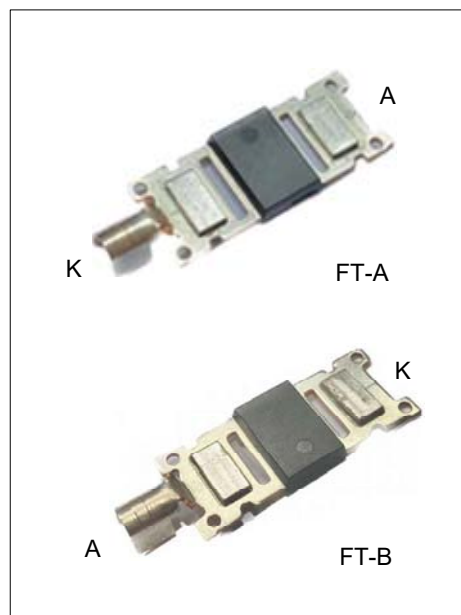
SCHOTTKY BYPASS DIODE MODULE

■ FEATURES

- * Ultra low forward voltage, low power loss
- * Low leakage current
- * High surge current

■ SYMBOL

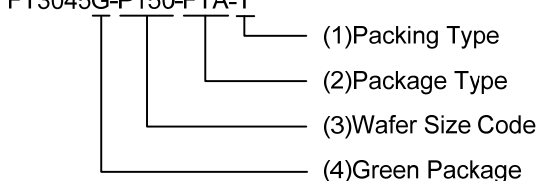
FT-A	FT-B
A \rightarrow  K	K \leftarrow  A



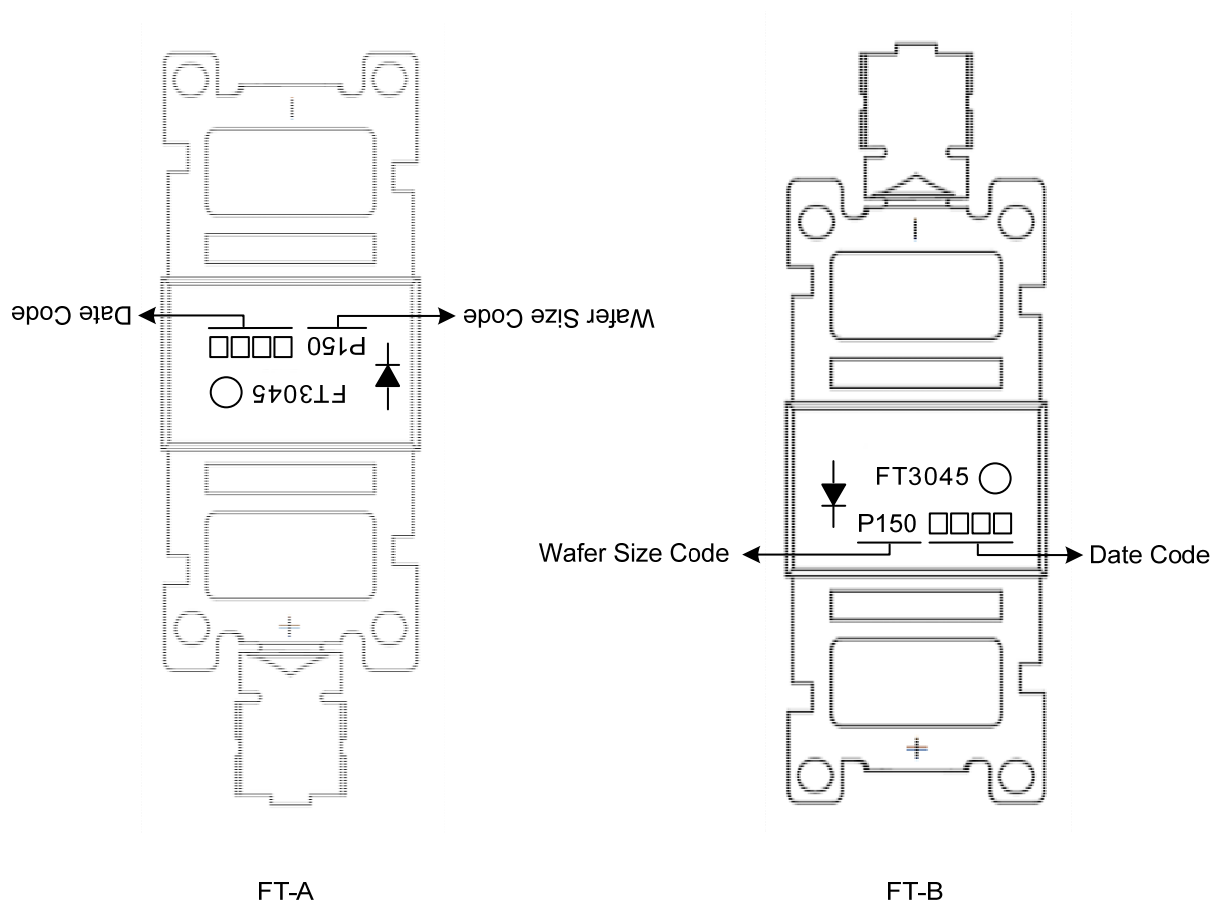
■ ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
FT3045L-P150-FTA-T	FT3045G-P150-FTA-T	FT-A	Tube
FT3045L-P150-FTB-T	FT3045G-P150-FTB-T	FT-B	Tube

Note: Pin Assignment: A: Anode K: Cathode

<p>FT3045G-P150-FTA-T</p> 	<p>(1) T: Tube</p> <p>(2) FTA: FT-A, FTB: FT-B</p> <p>(3) P150D</p> <p>(4) G: Halogen Free and Lead Free, L: Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ 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
RMS Voltage	V_{RMS}	31.5	V
Average Rectified Output Current @ 60Hz Half Sine-Wave, R-Load	I_O	30	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load Per Diode	I_{FSM}	300	A
Operating Junction Temperature (In DC Forward Mode Operation Without Reverse Bias) ($t \leq 1\text{h}$)	T_J	$-55 \sim +200$	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	$-55 \sim +150$	$^{\circ}\text{C}$

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)

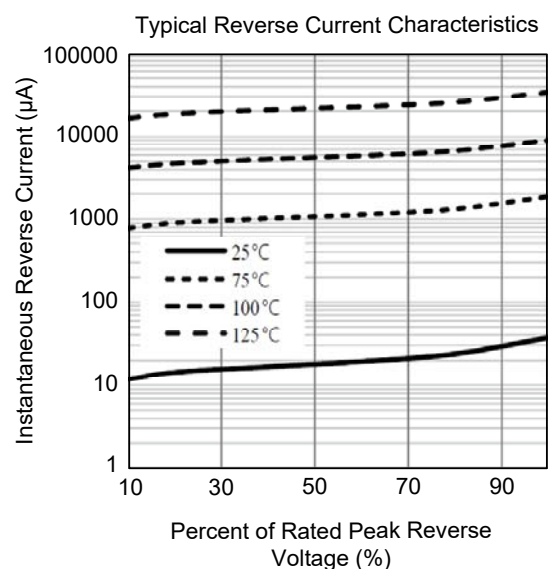
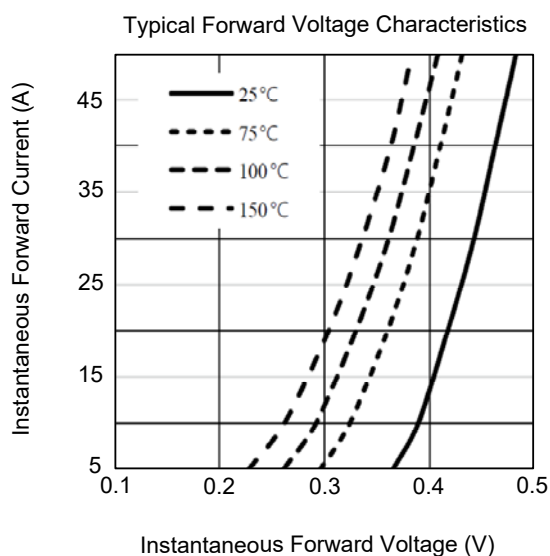
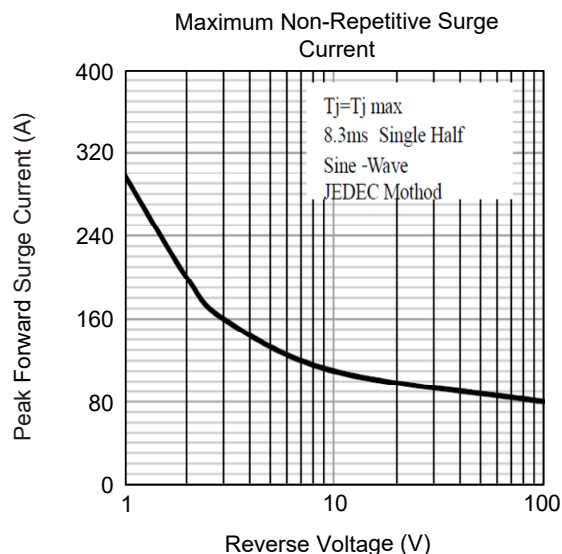
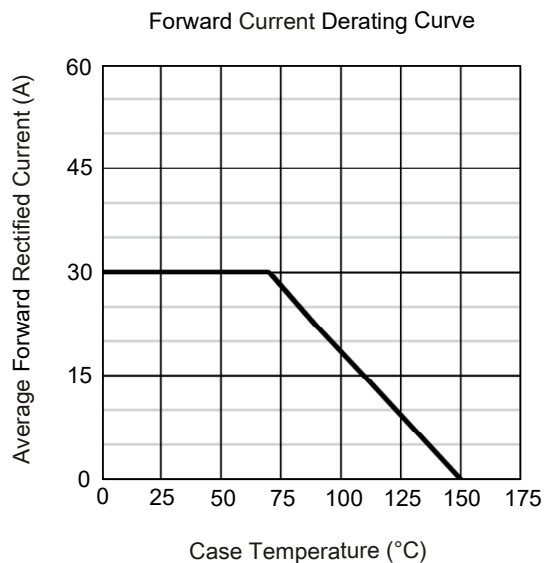
PARAMETER	SYMBOL	RATINGS	UNIT
Typical Thermal Resistance	θ_{JC}	0.7	$^{\circ}\text{C/W}$

■ ELECTRICAL CHARACTERISTICS (PER LEG) ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=0.50\text{mA}$	45			V
Maximum Instantaneous Forward Voltage Drop per Diode	V_F	$I_F=30\text{A}, T_C=25^{\circ}\text{C}$		0.50	0.55	V
		$I_F=30\text{A}, T_C=125^{\circ}\text{C}$			0.46	V
Reverse Leakage Current @ V_R	I_R	$V_R=40\text{V}, T_C=25^{\circ}\text{C}$			100	μA
		$V_R=40\text{V}, T_C=125^{\circ}\text{C}$			12	mA

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

■ TYPICAL CHARACTERISTICS



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