



FT3045-P150

DIODE

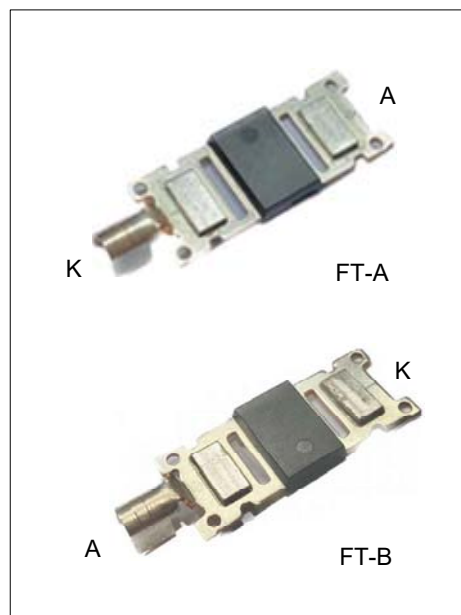
SCHOTTKY BYPASS DIODE MODULE

■ FEATURES

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

■ SYMBOL

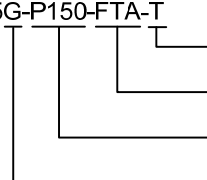
FT-A	FT-B
A $\rightarrow$  K	K $\leftarrow$  A



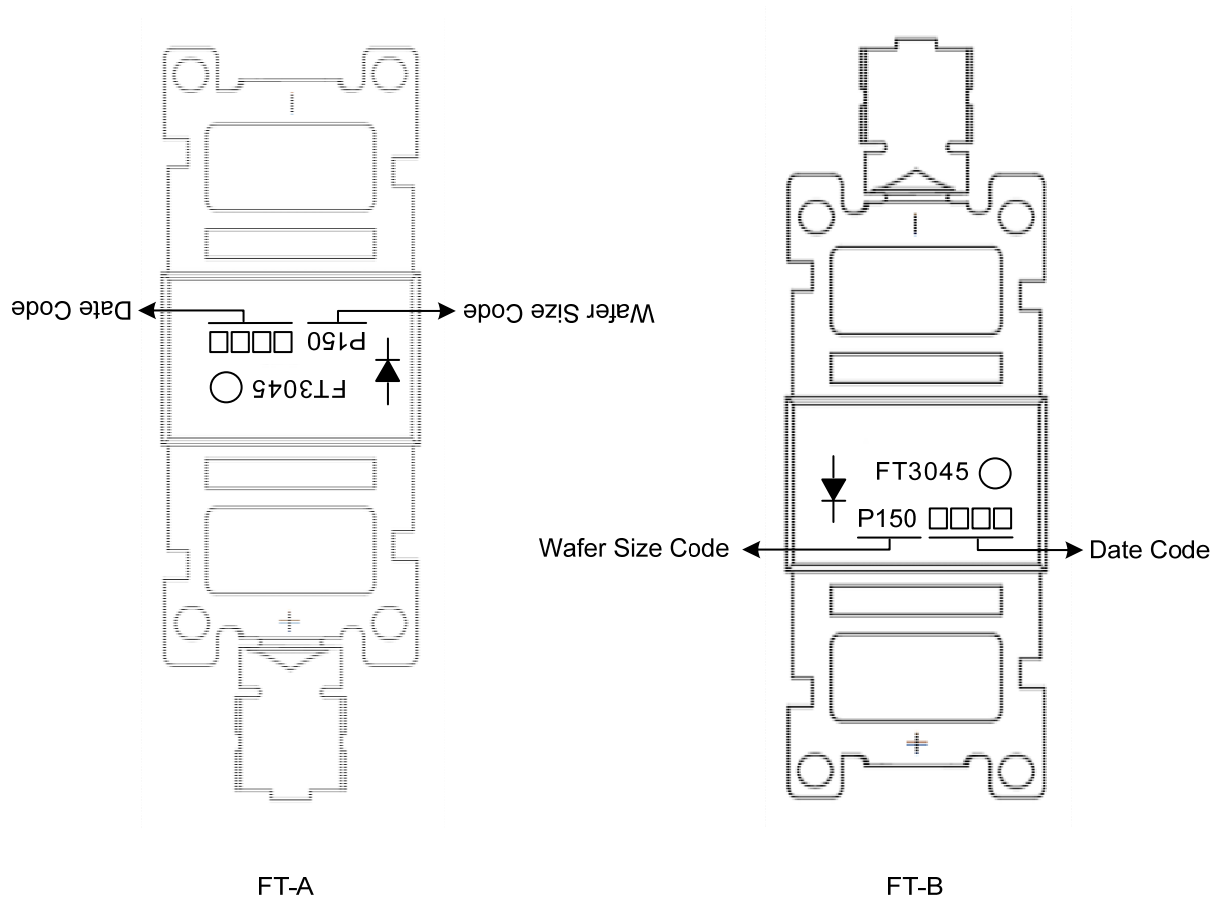
■ ORDERING INFORMATION

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

FT3045G-P150-FTA-T  (1) Packing Type (2) Package Type (3) Wafer Size Code (4) Green Package	(1) T: Tube (2) FTA: FT-A, FTB: FT-B (3) P150D (4) G: Halogen Free and Lead Free, L: Lead Free
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■ 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
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<=1h)	T _J	-55 ~ +200	°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)

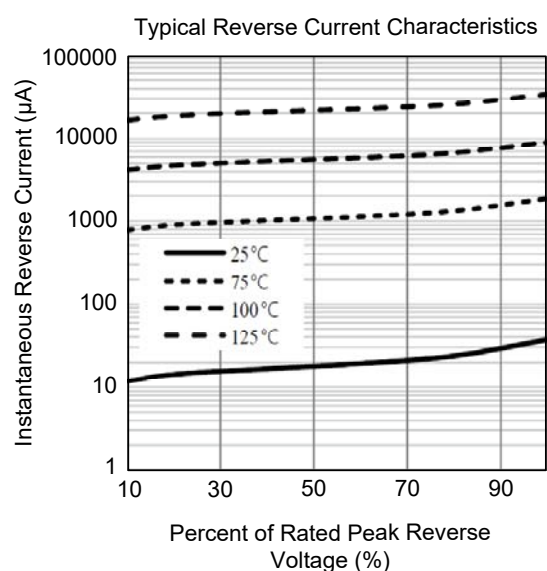
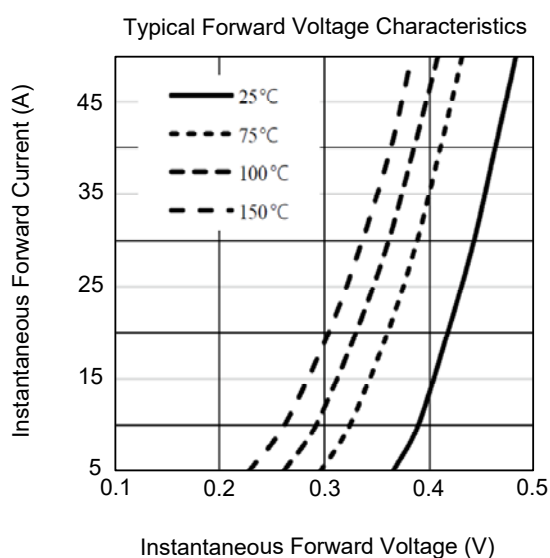
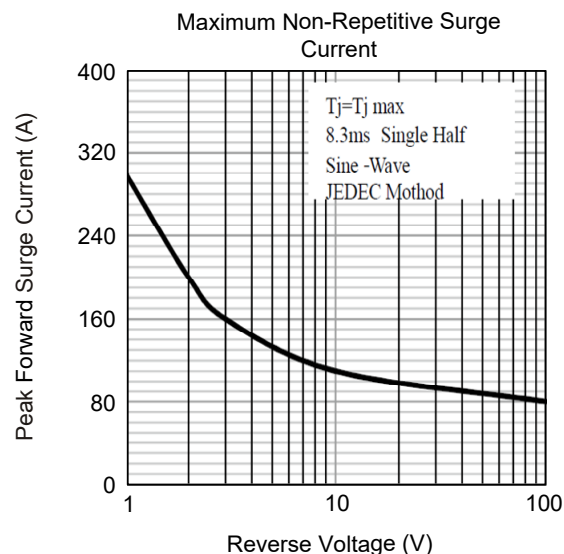
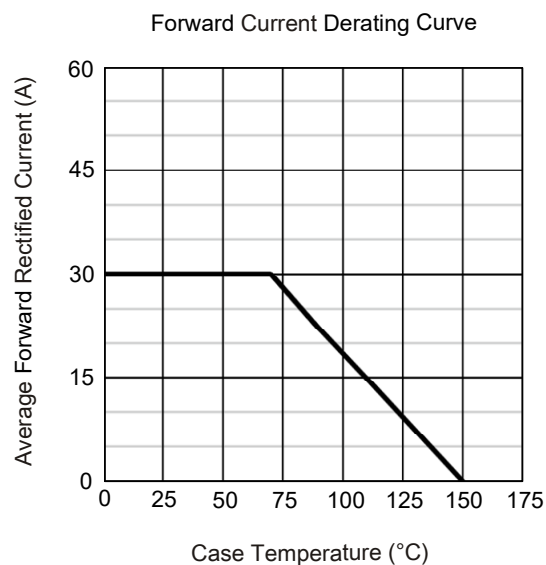
PARAMETER	SYMBOL	RATINGS	UNIT
Typical Thermal Resistance	θ _{JC}	0.7	°C/W

■ 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	V _F	I _F =30A, T _C =25°C		0.50	0.53	V
		I _F =30A, T _C =125°C			0.46	V
		I _F =40A, T _C =25°C		0.53	0.58	V
		I _F =40A, T _C =125°C			0.51	V
Reverse Leakage Current @ V _R	I _R	V _R =40V, T _C =25°C			100	μA
		V _R =40V, T _C =125°C			12	mA

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

TYPICAL CHARACTERISTICS



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