

UTC UNISONIC TECHNOLOGIES CO., LTD

FT5045-P150D

Preliminary

DIODE

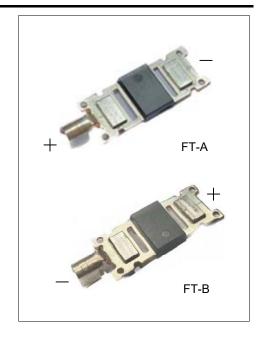
SCHOTTKY BYPASS DIODE **MODULE**

FEATURES

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

SYMBOL

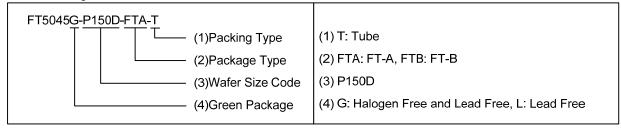
FT-A	FT-B	
A — ▶ K	К — А	



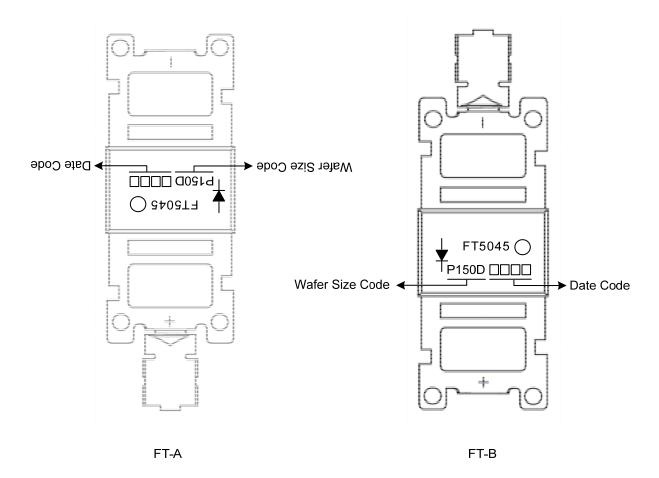
ORDERING INFORMATION

Ordering Number		Dealters	De aliin a		
Lead Free	Halogen Free Package		Packing		
FT5045L-P150D-FTA-T	FT5045G-P150D-FTA-T	FT-A	Tube		
FT5045L-P150D-FTB-T	FT5045G-P150D-FTB-T	FT-B	Tube		

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING



Preliminary

■ 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 Haif Sine-Wave, R-Load	Io	50	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load Per Diode	I _{FSM}	700	Α
Operating Junction Temperature (In DC Forward Mode Operation Without Reverse Bias) (t<=1h)	TJ	-55 ~ +200	°C
Storage Temperature	Тѕтс	-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	$\theta_{ m JC}$	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	VF	I _F =50A, T _C =25°C			0.55	V
Reverse Leakage Current @ V _R	l le	V _R =40V, T _C =25°C			100	μA
		V _R =40V, T _C =125°C			12	mA

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

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