

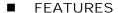
UNISONIC TECHNOLOGIES CO., LTD

GF2045M-P130

Preliminary

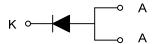
DIODE

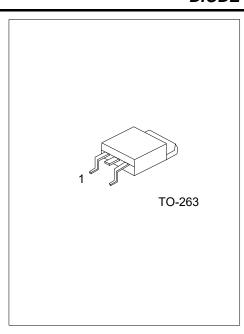
PHOTOVOLTAIC BYPASS SCHOTTKY BARRIER RECTIFIER



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



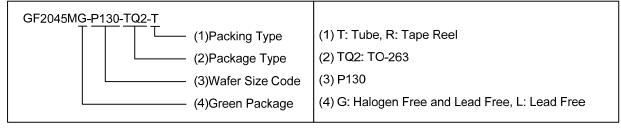




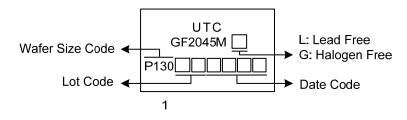
ORDERING INFORMATION

Ordering Number		Daalsana	Pin Assignment			Dealdean	
Lead Free	Halogen Free	Package	1	2	3	Packing	
GF2045ML-P130-TQ2-T	GF2045MG-P130-TQ2-T	TO-263	Α	K	Α	Tube	
GF2045ML-P130-TQ2-R	GF2045MG-P130-TQ2-R	TO-263	Α	K	Α	Tape Reel	

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 @ 60Hz Haif Sine Wave, 1 Cycle, T _A =25°C	Io	20	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	400	А
Operating Junction Temperature	T_J	-55 ~ +125	°C
Storage Temperature	T _{STG}	-55 ~ +125	°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	θјс	2	°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 =20A			0.55	٧
Laskana Cumant	I _R	V _R =45V, T _J =25°C			100	μΑ
Leakage Current		V _R =45V, T _J =100°C			10	mA

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

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