



Ordering Number		Deekere	Pin Assignment		Deaking	
Lead Free	Halogen Free	Package	1	2	Packing	
TGBR40S45L-R07-B	TGBR40S45G-R07-B	R-7	K	А	Tape Box	
Note: Pin Assignment: A: Anode K: Cathode						

TGBR40S45 <u>G-R07-</u> B	
(1)Packing Type	(1) B: Tape Box
(2)Package Type	(2) R07: R-7
(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

MARKING



Cathode Band for uni-directional Only

- L : Lead Free
- ➤ G: Halogen Free
- Date Code

Advance

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, defate 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 Per Device T _C =140°C	lo	40	А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	450	А	
Operating Junction Temperature	ТJ	-65 ~ +150	°C	
Storage Temperature	T _{STG}	-65 ~ +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」с	2.0	°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
Forward Voltage Drop	VFM	I⊧=40A, T」=25°C			0.55	V
Lashana Oumant		V _R =45V, T _J =25°C			500	μA
Leakage Current	IRM	V _R =45V, T _J =100°C			50	mA

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



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