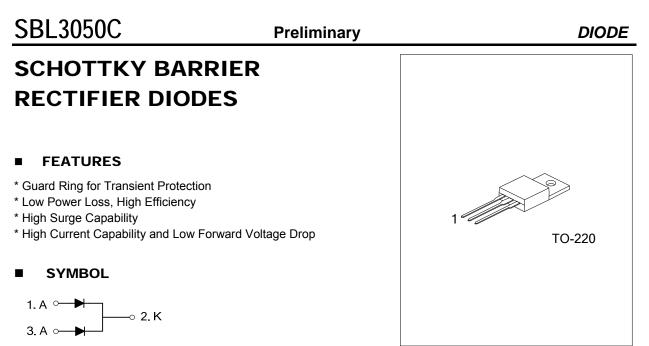


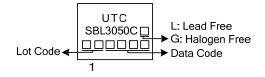
UNISONIC TECHNOLOGIES CO., LTD



ORDERING INFORMATION

Order Number		Deekere	Pin Assignment			Decking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
SBL3050CL-TA3-T	SBL3050CG-TA3-T	TO-220	А	К	А	Tube	
Note: Pin Assignment: A: Anode K: Cathode							
SBL3050CL-TA3-T	 (1)Packing Type (2)Package Type (3)Lead Plating 	(1) T: Tube (2) TA3: Tr (3) L: Lead	0-220	G: Halo	gen Fre	e	

MARKING



Preliminary

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

PARAMETER		SYMBOL	RATINGS	UNIT	
DC Blocking Voltage		V _R	50	V	
Recurrent Peak Reverse Voltage		V _{RRM}	50	V	
RMS Voltage		V _{RWM}	50	V	
RMS Reverse Voltage		V _{R(RMS)}	42	V	
Average Forward Rectified Current	Per Leg	- I _o	15	٨	
	Per Package		30	A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load Per Diode		I _{FSM}	250	А	
Operating Junction Temperature		TJ	150	°C	
Storage Temperature		T _{STG}	-65~+150	°C	

Note: 1. 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.

2. Thermal resistance junction to case mounted on heatsink.

■ **THERMAL CHARACTERISTICS** (T_A=25°C, unless otherwise noted.)

PARAMETER	SYMBOL	RATINGS	UNIT	
Junction to Case (Note 1)	θ _{JC}	2.5	°C/W	

ELECTRICAL CHARACTERISTICS (T_A = 25°C, unless otherwise noted.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 3)	V _{(BR)R}	I _R =0.50mA	50			V
	V _{FM}	I _F =15A, T _J =25°C			0.70	V
Forward Voltage Drop		I _F =15A, T _J =125°C			0.65	V
Leakage Current (Note 3)	I _{RM}	V _R =50V, T _J =25°C			1	mA
		V _R =50V, T _J =125°C			75	mA
Total Capacitance (Note 2)	CT			420		V

Notes: 1. Pulse Test: 300µs pulse width, 1% duty cycle.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Short duration pulse test used to minimize self-heating effect.

4. Thermal resistance junction to case mounted on heatsink.

5. Mounted on an FR4 PCB, single-sided copper, with 100 cm² copper pad area.



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