TOSHIBA High Efficiency Diode Stack (HED) Silicon Epitaxial Type

# **U20GL2C53A**

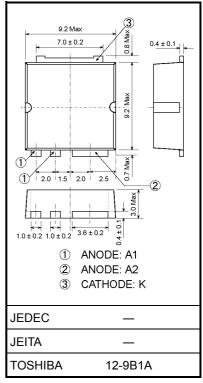
# Switching Mode Power Supply Application Converter&Chopper Application

- Repetitive peak reverse voltage: V<sub>RRM</sub> = 400 V
- Average output recified current: Io = 20 A
- Ultra fast reverse-recovery time:  $t_{rr} = 35 \text{ ns (max)}$
- Low switching losses and output noise.
- Power surface mount device for thin flat package. "TFP" (TOSHIBA designation)

#### Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Repetitive peak reverse voltage	$V_{RRM}$	400	V	
Average output recified current	IO	20	Α	
Peak one cycle surge forward current	I <sub>FSM</sub>	100 (50 Hz)	A	
(non-repetitive, sine wave)		110 (60 Hz)		
Junction temperature	Tj	-40 to 150	°C	
Storage temperature range	T <sub>stg</sub>	-40 to 150	°C	

Unit: mm



Weight: 0.74 g (typ.)

#### **Polarity**



\*: Common Terminal

## Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Peak forward voltage	$V_{FM}$	I <sub>FM</sub> = 10 A	_	_	1.8	V
Repetitive peak reverse current	I <sub>RRM</sub>	V <sub>RRM</sub> = 400 V			50	μΑ
Reverse recovery time	t <sub>rr</sub>	$I_F = 2 \text{ A}, \text{ di/dt} = -50 \text{ A/}\mu\text{s}$	_	_	35	ns
Thermal resistance	R <sub>th (j-c)</sub>	DC Total, Junction to Case	_	_	1.5	°C/W

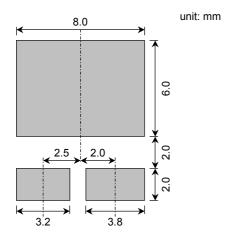
Note:  $V_{FM}$ ,  $I_{RRM}$ ,  $t_{rr}$ : A value of one cell.

## Marking

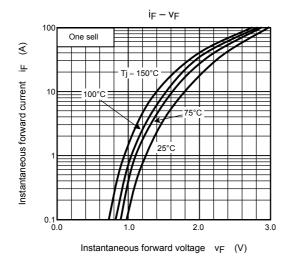


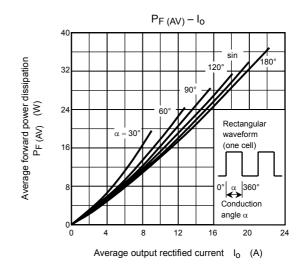
<b>※</b> 1	MARK	20GL2C	TYPE	U20GL2C53A			
<b>※</b> 2	Α						
<b>※</b> 3	Lot Number  Month (starting from alphabet A)  Year (last number of the christian era)						

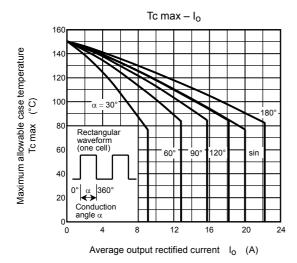
#### **Standard Soldering Pad**

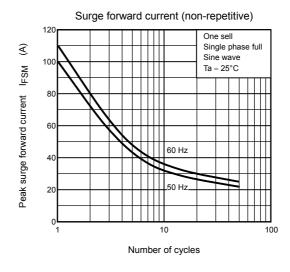


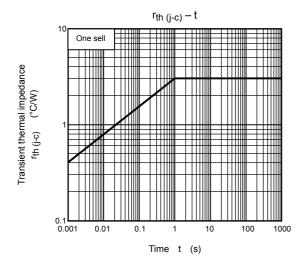
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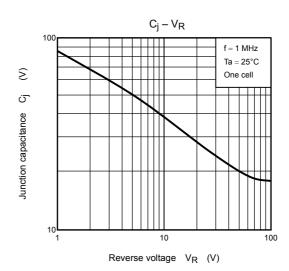












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