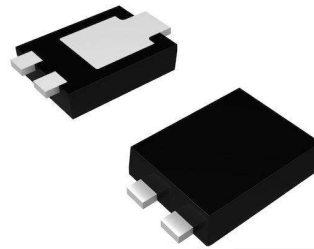


Schottky Barrier Rectifier in TO-277

Features

- Schottky barrier diodes
- Low forward voltage drop
- High junction temperature
- High forward surge current capability



LEFT PIN ○
 RIGHT PIN ○ → BOTTOMSIDE HEAT SINK

Mechanical Data

- **Case:** TO-277 (plastic package).
Lead free; RoHS compliant
- **Molding Compound Flammability Rating:**
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:
260 °C/10 sec. at terminals

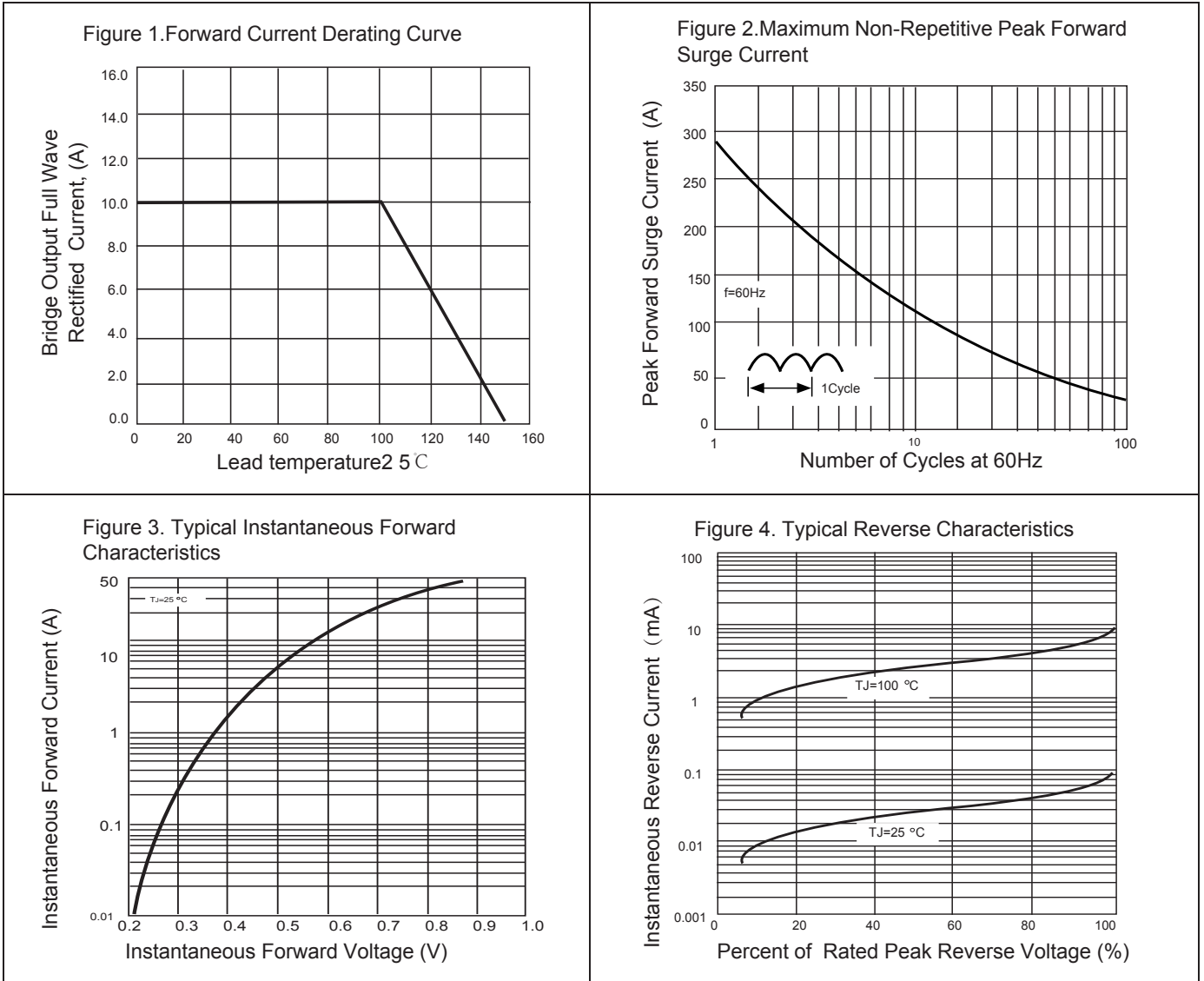
Absolute Maximum Ratings			
Ratings at 25 °C, ambient temperature unless otherwise specified			
Parameter	Symbol	CSB10L60SG	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Maximum average forward rectified current	$I_{F(AV)}$	10.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	300	A
Operating junction and storage temperature range	T_J, T_{STG}	- 55 to + 150	°C

Electrical Characteristics					
(T _A = 25 °C unless otherwise specified)					
Parameter	Test Conditions	Symbol	CSB10L60SG		Unit
Maximum instantaneous forward voltage	I _F =10A, T _A =25°C	V _F	Type	Max.	V
			0.505	0.55	
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	I _R	0.3		mA
	T _A =125°C		20		

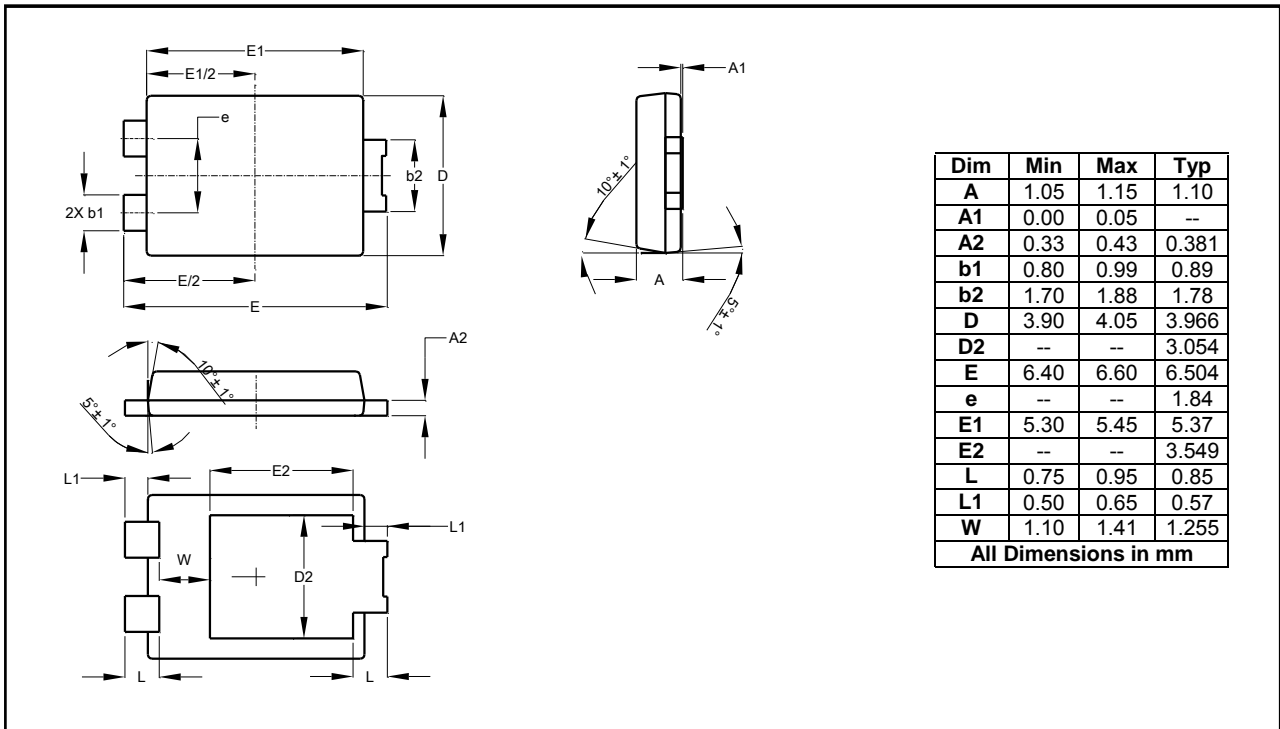
Thermal Characteristics			
Parameter	Symbol	CSB10L60SG	Unit
Typical thermal resistance ⁽¹⁾	R _{θJA}	60	°C/W
Operating junction temperature range	T _J	-55 to +125	°C
Storage temperature range	T _{STJ}	-55 to +150	°C

Note1: Thermal resistance from junction to lead, mounted on PCB with 5.0×5.0mm copper pads

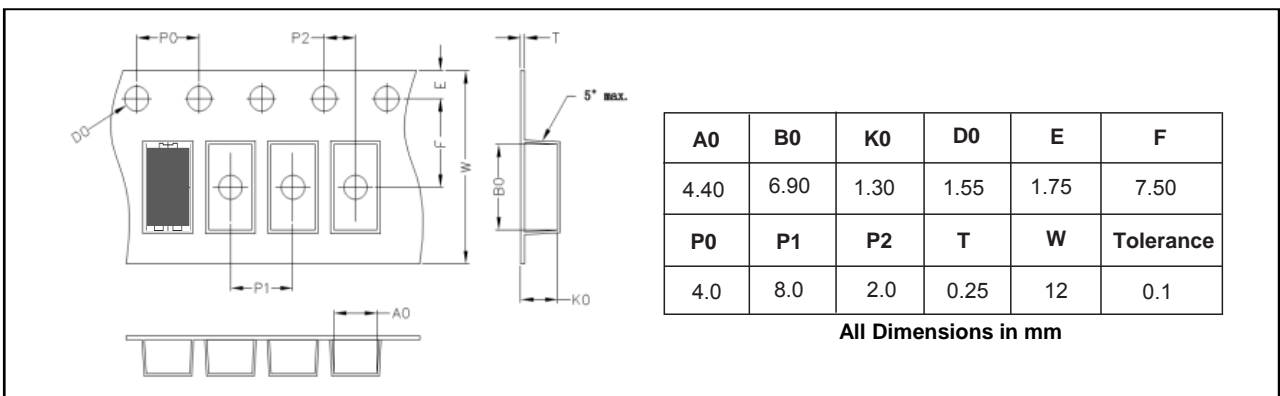
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



Package Dimensions



Package information



Ordering information

Order code	Package	Packaging option	Reel size	Base quantity	Packaging specification
CSB10L60SG	TO-277	Tape and reel	13'	5000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2020	1.0	Initial release

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