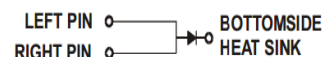
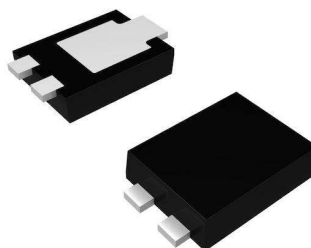


## Schottky Barrier Rectifier in TO-277

### Features

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



### 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

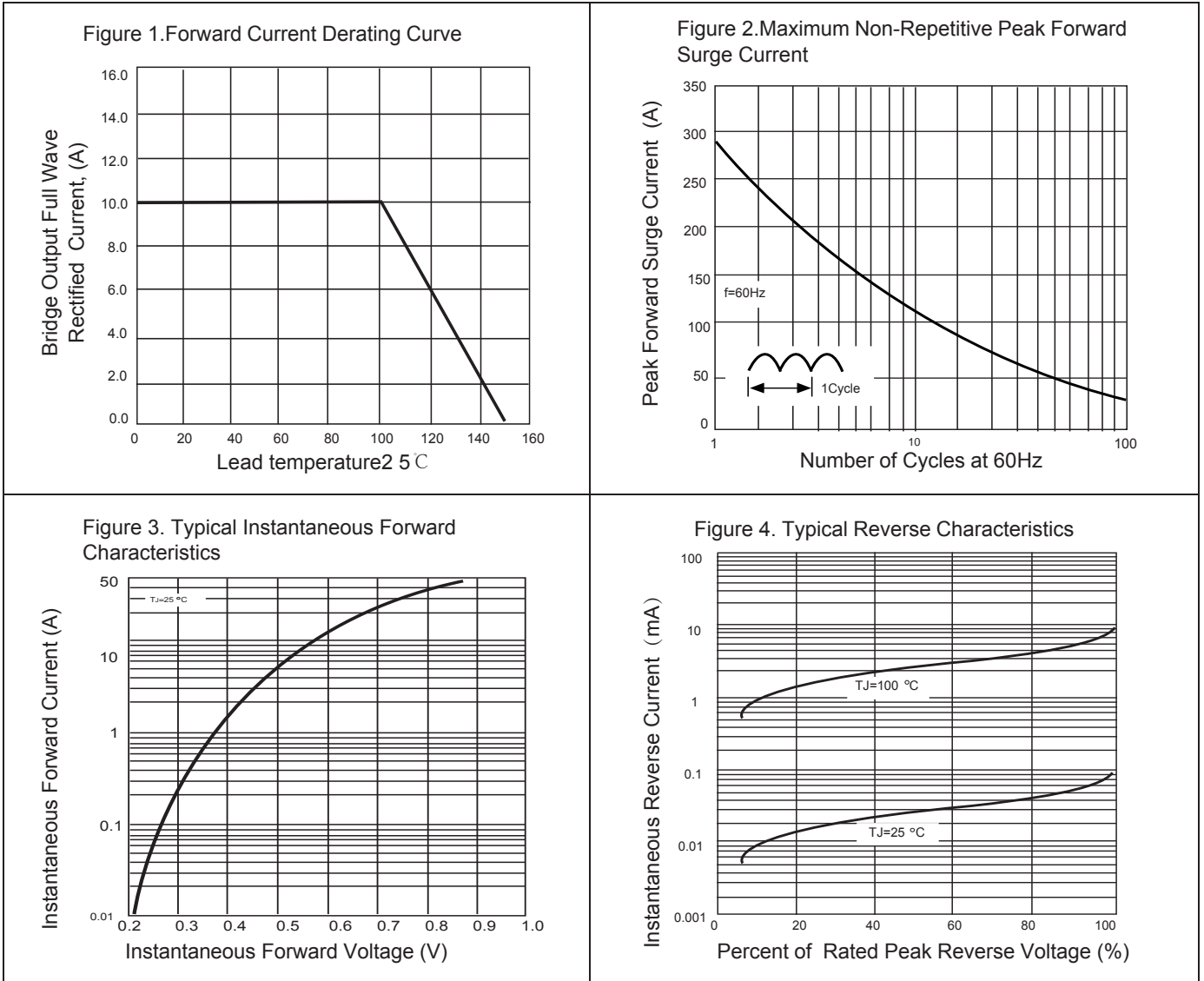
Absolute Maximum Ratings			
Ratings at 25 °C, ambient temperature unless otherwise specified			
Parameter	Symbol	CSB10L60SG	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	60	V
Maximum RMS voltage	$V_{RMS}$	42	V
Maximum DC blocking voltage	$V_{DC}$	60	V
Maximum average forward rectified current	$I_{F(AV)}$	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 <sub>A</sub> = 25 °C unless otherwise specified)					
Parameter	Test Conditions	Symbol	CSB10L60SG		Unit
Maximum instantaneous forward voltage	$I_F=10A, T_A=25^\circ C$	$V_F$	Type	Max.	V
			0.505	0.55	
Maximum DC reverse current at rated DC blocking voltage	$T_A=25^\circ C$	$I_R$	0.3		mA
	$T_A=125^\circ C$		20		

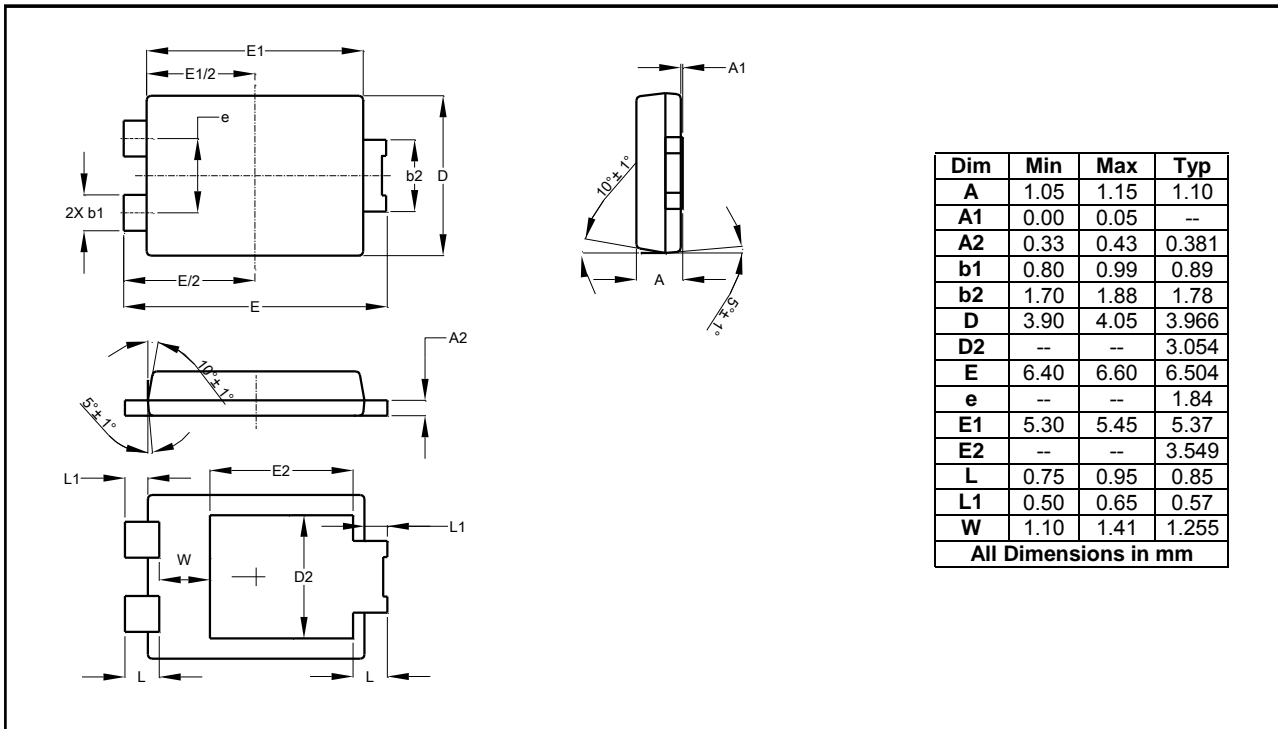
Thermal Characteristics			
Parameter	Symbol	CSB10L60SG	Unit
Typical thermal resistance <sup>(1)</sup>	$R_{\theta JA}$	60	°C/W
Operating junction temperature range	$T_J$	-55 to +125	°C
Storage temperature range	$T_{STJ}$	-55 to +150	°C

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

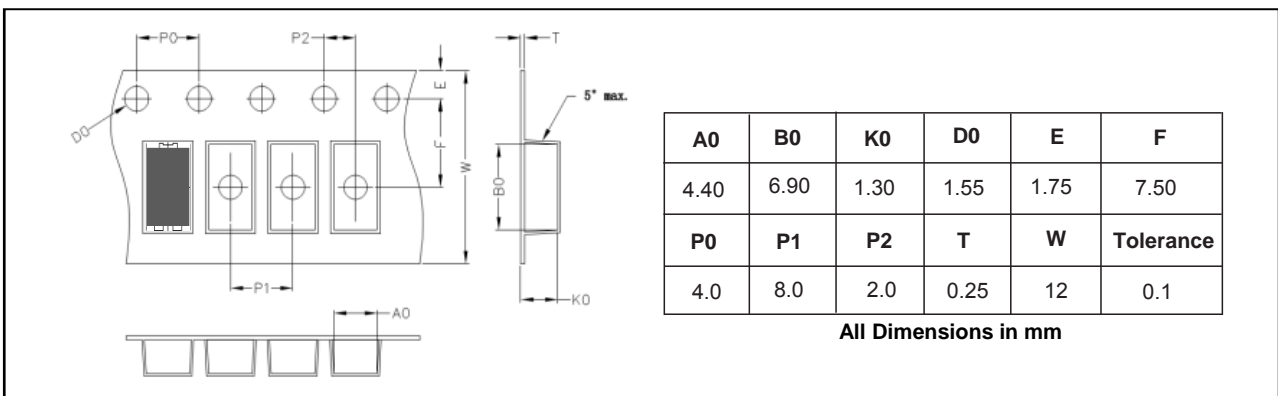
**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



**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-2017	1.0	Initial release

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