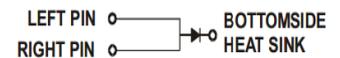
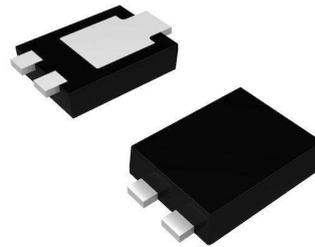


Schottky Barrier Rectifier in TO-277

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

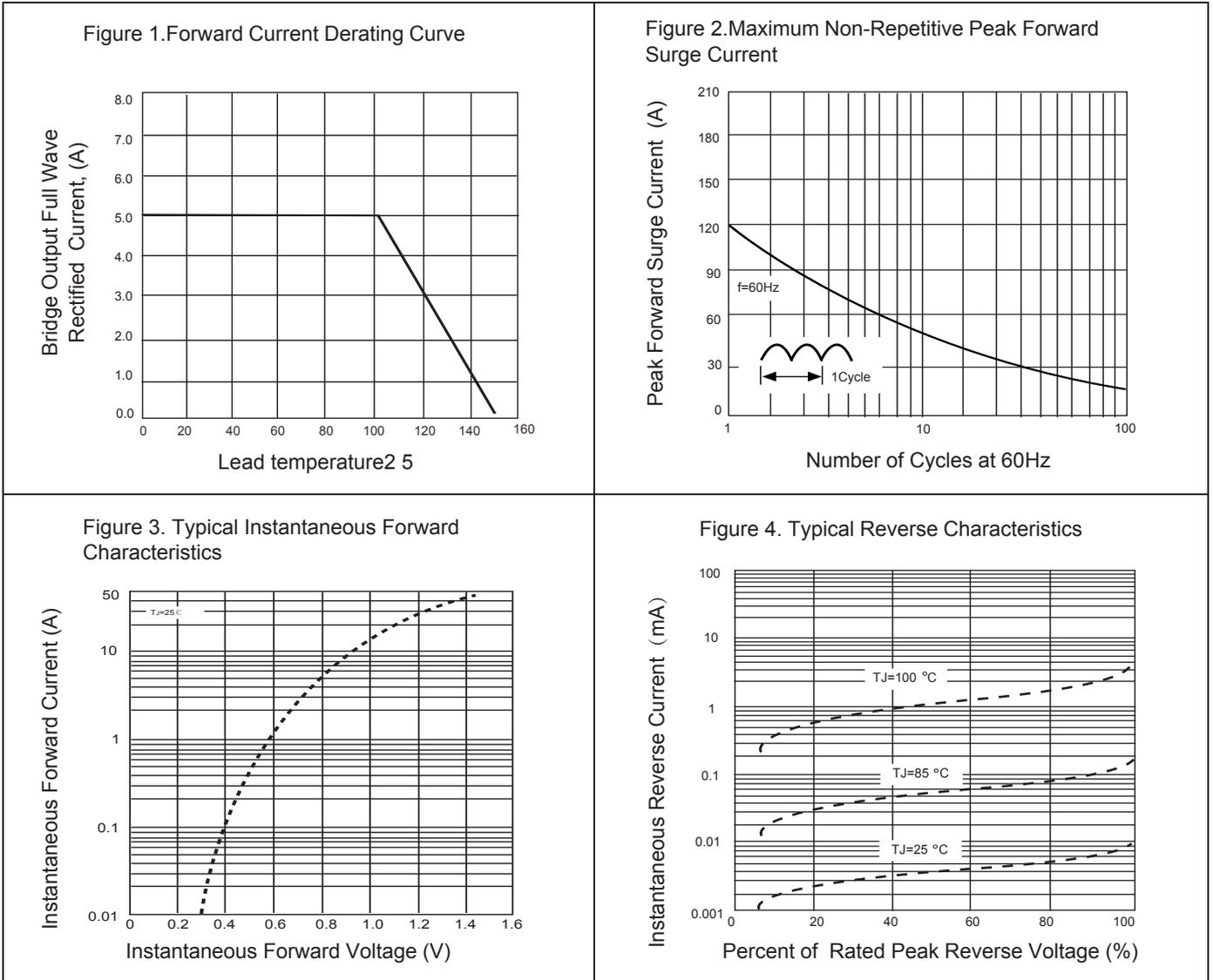
Absolute Maximum Ratings			
Ratings at 25 °C, ambient temperature unless otherwise specified			
Parameter	Symbol	CSB5100SG	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	70	V
Maximum DC blocking voltage	V_{DC}	100	V
Maximum average forward rectified current	$I_{F(AV)}$	5.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	120	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	CSB5100SG	Unit
Maximum instantaneous forward voltage	$I_F=5A, T_A=25^{\circ}C$	V_F	0.85	V
Maximum DC reverse current at rated DC blocking voltage	$T_A=25^{\circ}C$	I_R	0.05	mA
	$T_A=125^{\circ}C$		10	

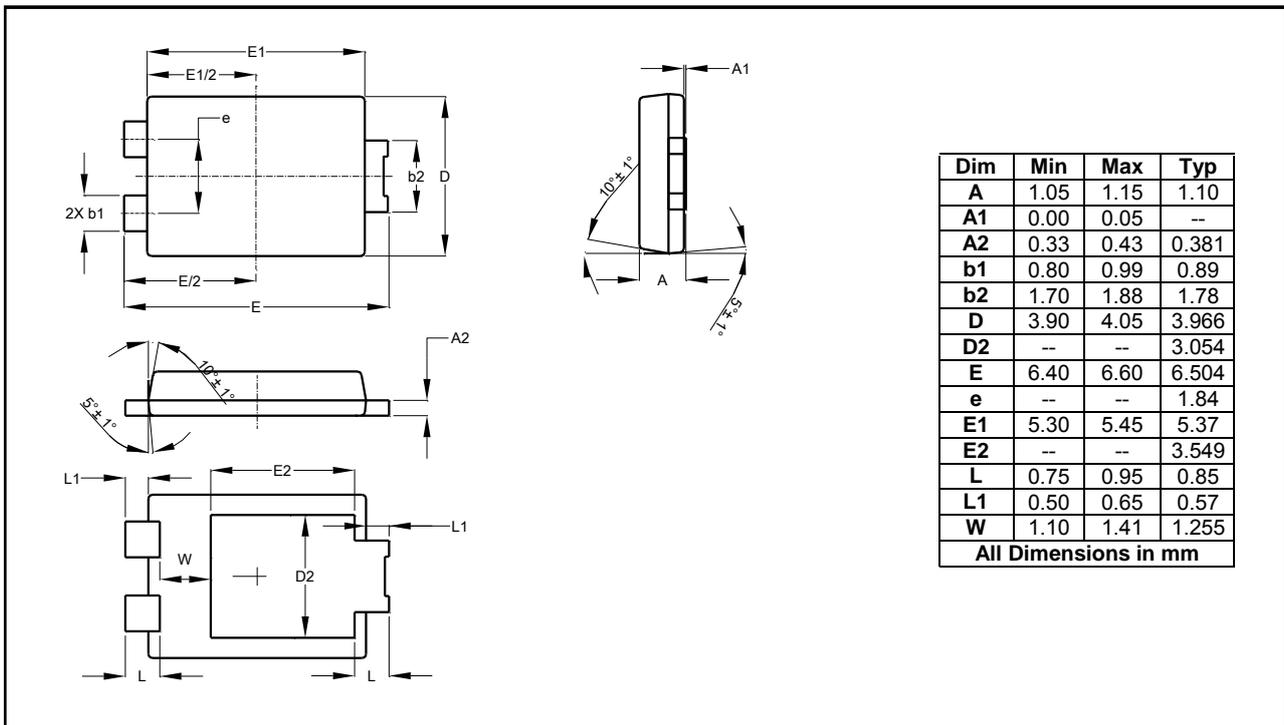
Thermal Characteristics			
Parameter	Symbol	CSB5100SG	Unit
Typical thermal resistance ⁽¹⁾	$R_{\theta JA}$	60	°C/W
Operating junction temperature range	T_J	-55 to +150	°C
Storage temperature range	T_{STJ}	-55 to +150	°C

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

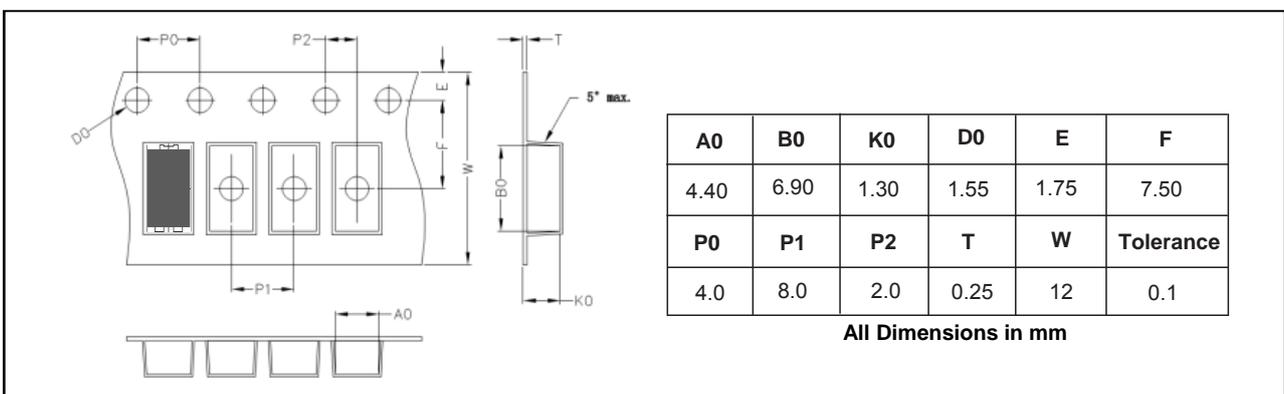
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



Package Dimensions



Package information



Ordering information

Order code	Package	Packaging option	Reel size	Base quantity	Packaging specification
CSB5100SG	TO-277	Tape and reel	13'	5000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2017	1.0	Initial release
17-Aug.-2018	2.0	update Package information
21-Oct.-2018	2.1	update

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