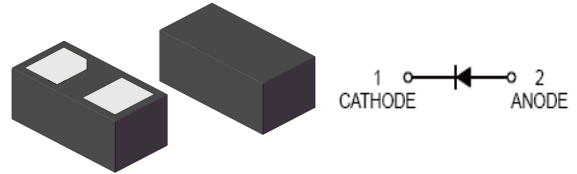


Schottky Barrier Diode in DFN0603

Features

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability



Mechanical Data

- **Case:** DFN0603 (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

Applications

- Low current rectification
- High efficiency DC-to-DC conversion
- Switch Mode Power Supply (SMPS)
- Reverse polarity protection
- Low power consumption applications

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

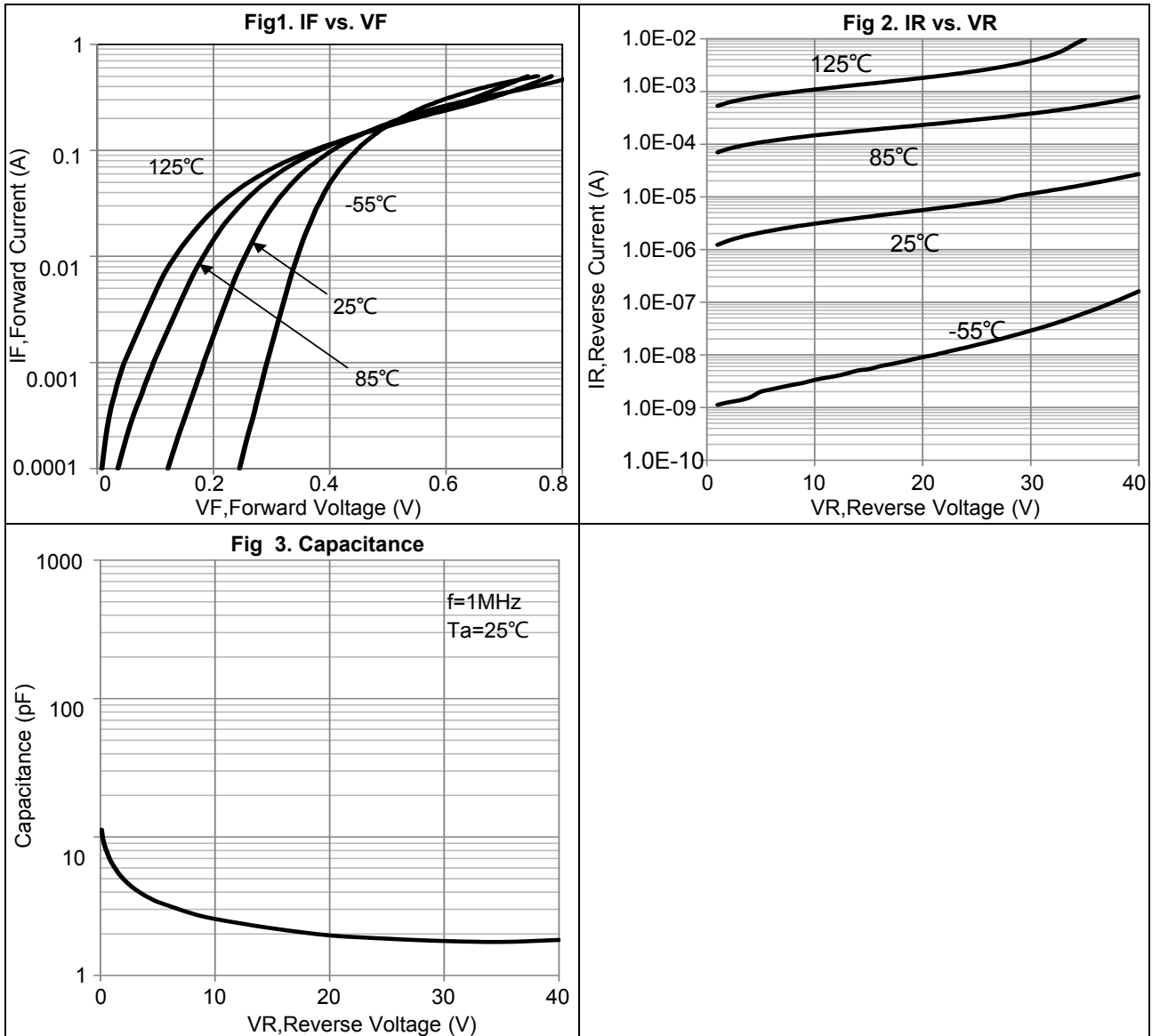
Parameter	Symbol	Limit	Unit
DC reverse voltage	V_R	30	V
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Mean rectifying current	I_O	100	mA
Non-repetitive Peak forward surge current @ t=8.3ms	I_{FSM}	2	A
Power dissipation	P_D	200	mW
Junction temperature	T_j	100	°C
Storage temperature	T_{stg}	-40~+100	°C

Electrical Characteristics

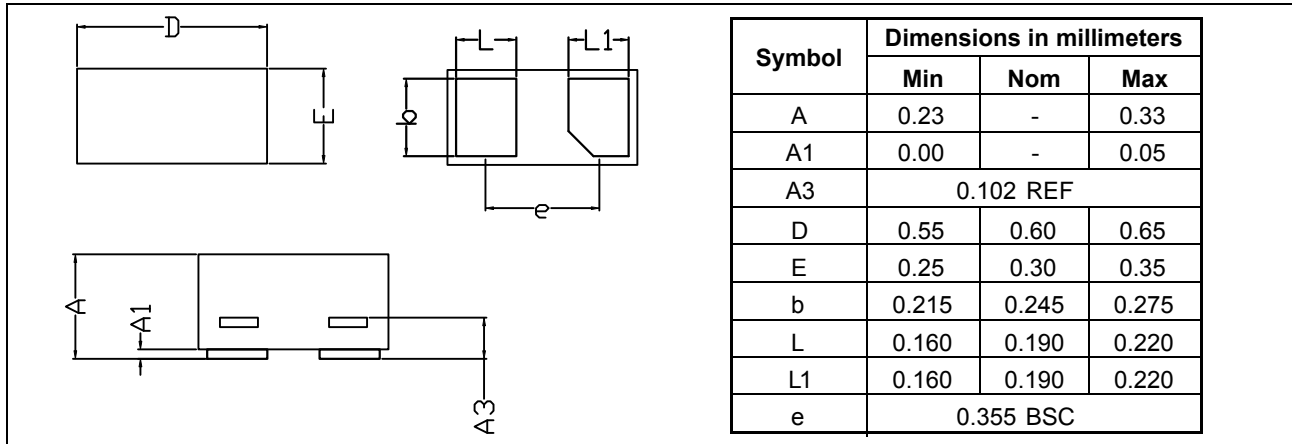
($T_A = 25\text{ °C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F			0.37	V	$I_F=60\text{mA}$
Reverse current	I_R			20	μA	$V_R=30\text{V}$
Capacitance	C_D		8.2		pF	$V_R = 1\text{V}, f = 1\text{MHz}$

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



Package Dimensions



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CSB6N751S-40	DFN0603	Tape and reel	15000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2018	1.0	Initial release

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