



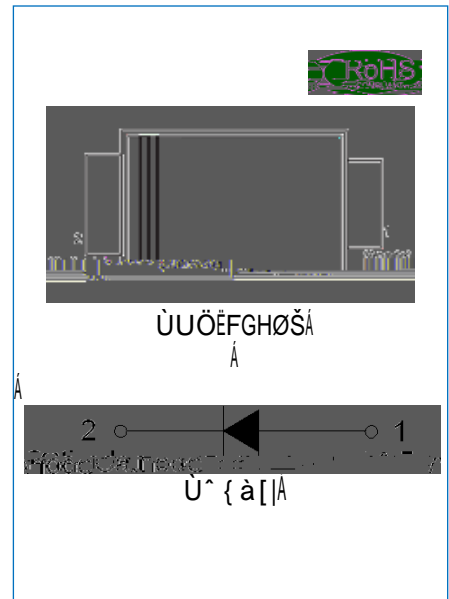
JSPI3100A

3A Schottky Barrier Rectifier

Rev.1.4

DESCRIPTION

1. This product is a Schottky Barrier Rectifier.
 2. It is suitable for use in power supplies, inverters, and other electronic devices.
 3. The device is characterized by its low forward voltage drop and high reverse blocking voltage.
 4. It is available in various packages, including TO-18, TO-18A, and TO-18B.
 5. The maximum average forward current is 3A.
 6. The maximum reverse voltage is 100V.
 7. The device is designed for high efficiency and long life.
 8. It is suitable for use in a wide range of applications.
 9. The device is manufactured using advanced Schottky Barrier Rectifier technology.
 10. It is a high-quality, reliable component.



MECHANICAL DATA

1. The device is available in TO-18, TO-18A, and TO-18B packages.
 2. The maximum average forward current is 3A.
 3. The maximum reverse voltage is 100V.
 4. The device is designed for high efficiency and long life.
 5. It is suitable for use in a wide range of applications.

ABSOLUTE MAXIMUM RATING

Parameter	Symbol	JSPI3100A	Unit
Maximum Average Forward Current	$I_{F(AV)}$	3.0	A
Maximum Reverse Current	I_R	1.0	mA
Maximum Forward Voltage	$V_{F(1A)}$	1.0	V
Maximum Reverse Voltage	V_R	100	V
Maximum Power Dissipation	P_{TOT}	1.0	W
Maximum Junction Temperature	$T_{J(M)}$	175	°C
Storage Temperature Range	T_{STG}	-55 to 175	°C
Operating Temperature Range	T_{OP}	-55 to 175	°C

ELECTRICAL CHARACTERISTICS

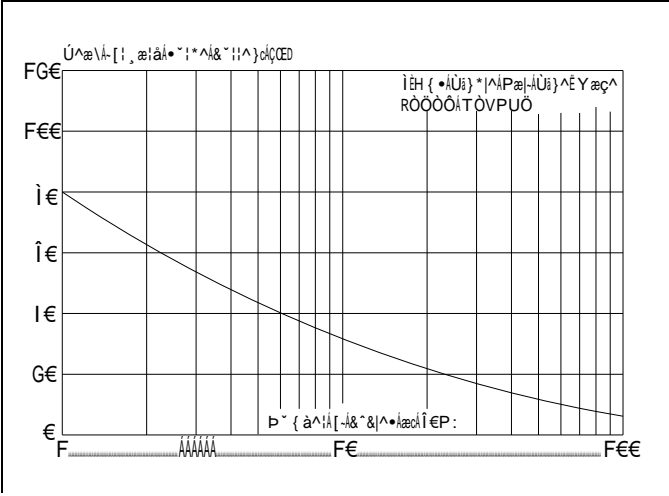
Parameter	Symbol	Min	Typ	Max	Unit
Forward Voltage	V_F	0.8	1.0	1.2	V
Reverse Current	I_R	0.5	1.0	1.5	mA
Dynamic Forward Resistance	r_{DF}	0.05	0.1	0.2	Ω
Dynamic Reverse Resistance	r_{DR}	0.05	0.1	0.2	Ω
Reverse Recovery Time	t_{RR}	0.1	0.2	0.3	ns

JSPI3100A



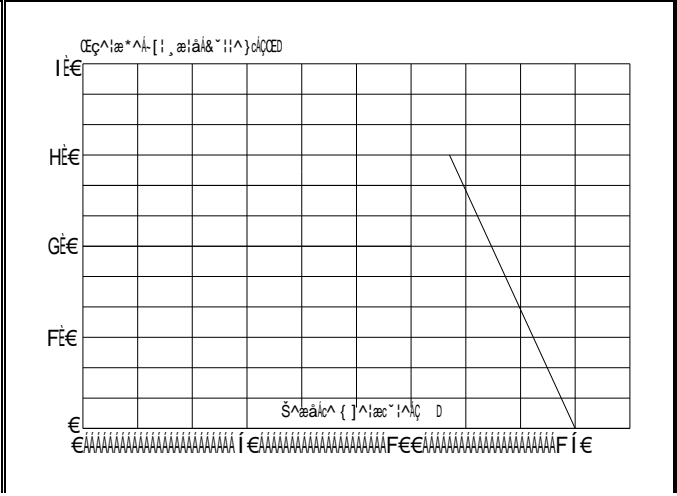
CHARACTERITICS CURVE

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