



RB0240P1

Surface Mount Schottky Barrier Rectifier

Features

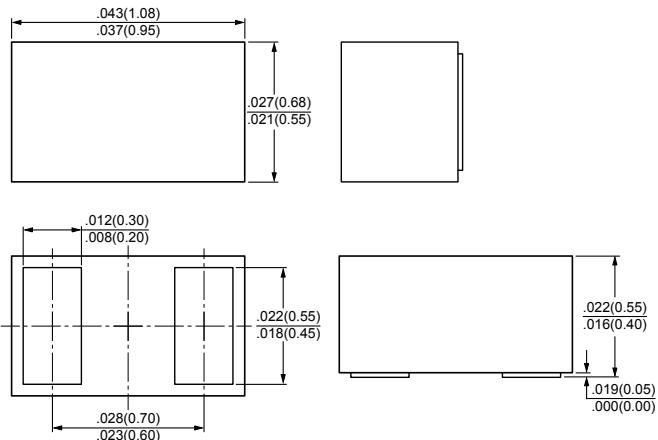
- ★ Ultra low forward voltage drop
- ★ Trench schottky barrier technology
- ★ Majority carrier conduction
- ★ Leadless ultra small SMD plastic package

Mechanical Data

- ★ Case: Molded plastic, DFN1006-2
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-202, method 208
- ★ Polarity: Color band denotes cathode end
- ★ Mounting position: Any

Voltage 40 Volt
Current 0.2 Ampere

DFN1006-2



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}		40			V
Maximum RMS voltage	V _{RMS}		28			V
Maximum DC blocking voltage	V _{DC}		40			v
Maximum average forward rectified current @T _L =100°C	I _{F(AV)}		0.2			A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}		2			A
Typical thermal resistance	R _{θJA}		250			°C/W
Operating junction temperature range	T _J		-50 to +125			°C
Storage temperature range	T _{STG}		-50 to +125			°C
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Breakdown voltage	V _{BR}	I _R = 0.1 mA	40	-	-	V
Instantaneous forward voltage	V _F	I _F = 100 mA I _F = 200 mA	-	-	520 600	mV
Reverse leakage current	I _R	V _R = 20 V V _R = 40 V	-	-	1 5	μA
Junction capacitance	C _J	V _R = 1 V, f = 1 MHz	-	15	-	pF

RATINGS AND CHARACTERISTICS CURVES

Fig.1 - Forward Current Derating Curve

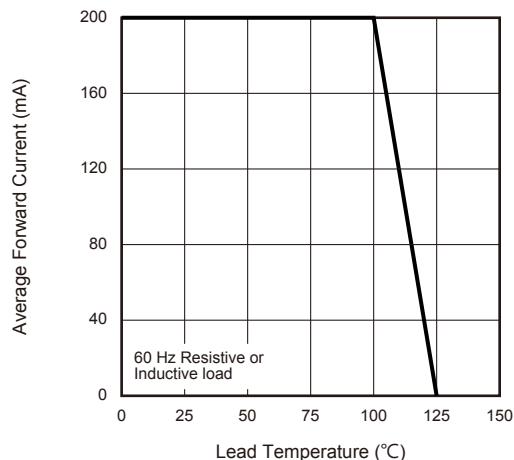


Fig.2 - Typical Instantaneous Forward Characteristics

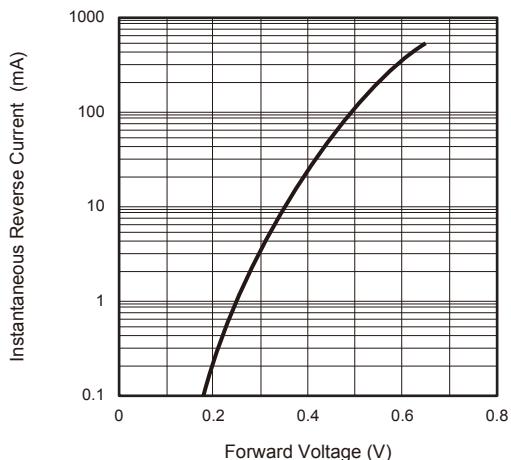


Fig.3 - Typical Reverse Characteristics

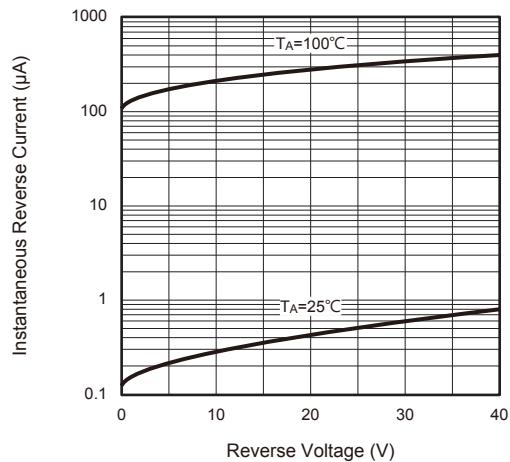
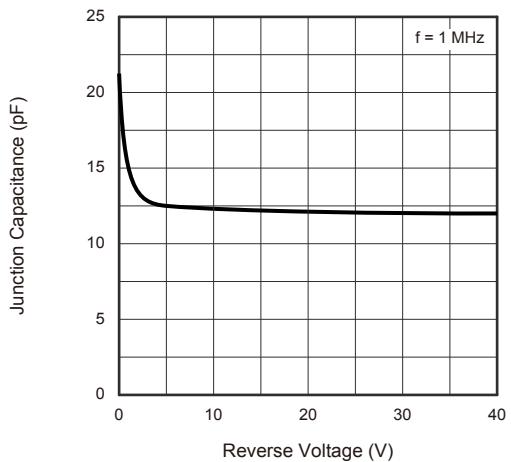


Fig.4 - Capacitance Characteristics



ORDERING INFORMATION

Part Number	Marking Code	Package	Quantity	Delivery Mode
RB0240P1	E	DFN1006-2	10,000	7" diameter reel