

BAT720 SCHOTTKY BARRIER DIODE

FEATURES

- High Switching Speed
- Low Forward Voltage
- Guard Ring Protected

APPLICATIONS

- Voltage Clamping
- Protection Circuits

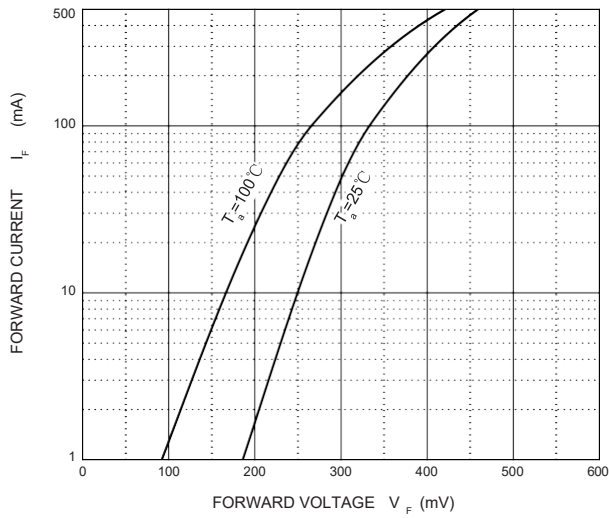
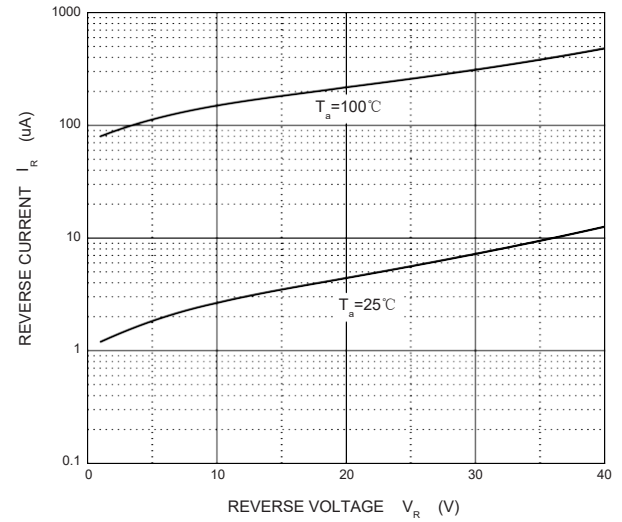
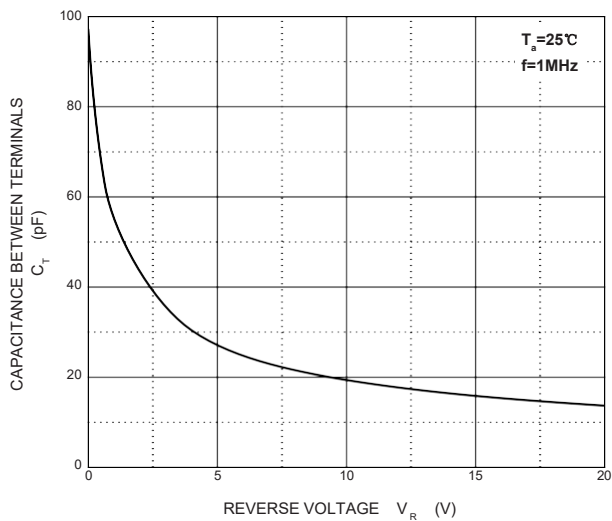


MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_R	DC Blocking Voltage	40	V
I_O	Continuous Forward Current	500	mA
I_{FSM}	Non-repetitive peak Forward Surge Current @ $t=8.3\text{ms}$	2	A
P_D	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	286	$^{\circ}\text{C}/\text{W}$
T_j	Operating Junction Temperature Range	$-40 \sim +125$	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	$-55 \sim +150$	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	40			V
Reverse current	I_R	$V_R=35\text{V}$			100	μA
Forward voltage	V_F	$I_F=500\text{mA}$			550	mV

Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve
