

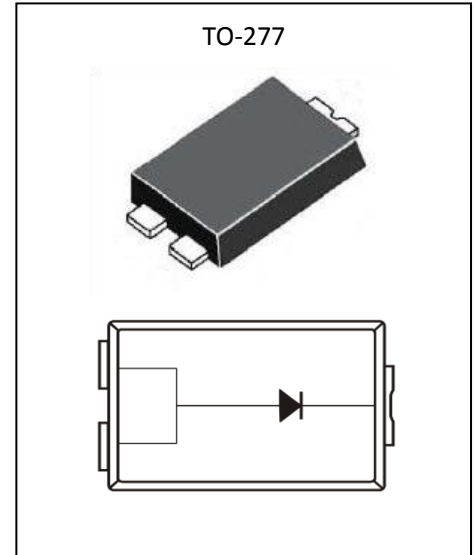
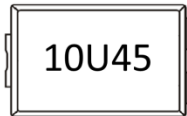


GP10U45

Feature

- Ultra-Low Forward Voltage
- Low Power Loss, High Efficiency
- High Current Capability
- High Surge Capability
- High Junction Temperature
- Low Reverse Current

MARKING:



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

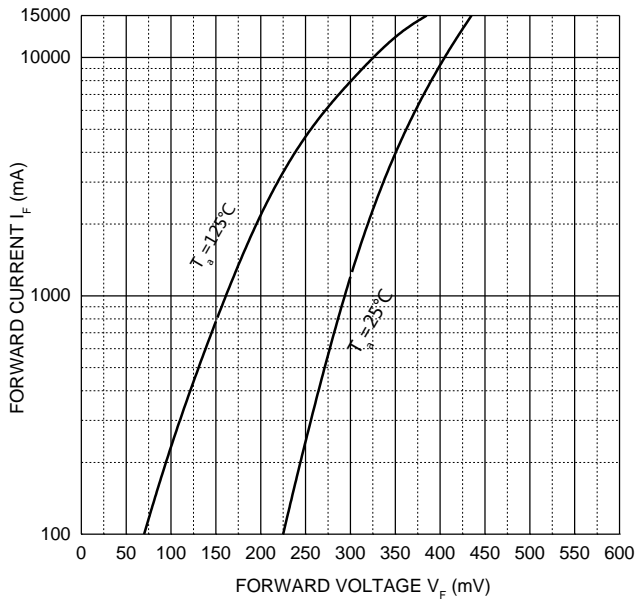
Parameter	Symbol	Value	Unit
Peak repetitive reverse voltage	V_{RRM}	45	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
RMS reverse voltage	$V_{R(RMS)}$	32	V
Average rectified output current@ $T_c=125^{\circ}\text{C}$	I_o	10	A
Non-Repetitive peak forward surge current 8.3ms half sine wave	IFSM	300	A
Power dissipation	P_D	1.2	W
Thermal resistance from junction to ambient	$R_{\theta JA}$	85	$^{\circ}\text{C/W}$
Junction temperature	T_j	125	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-55~+150	$^{\circ}\text{C}$

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

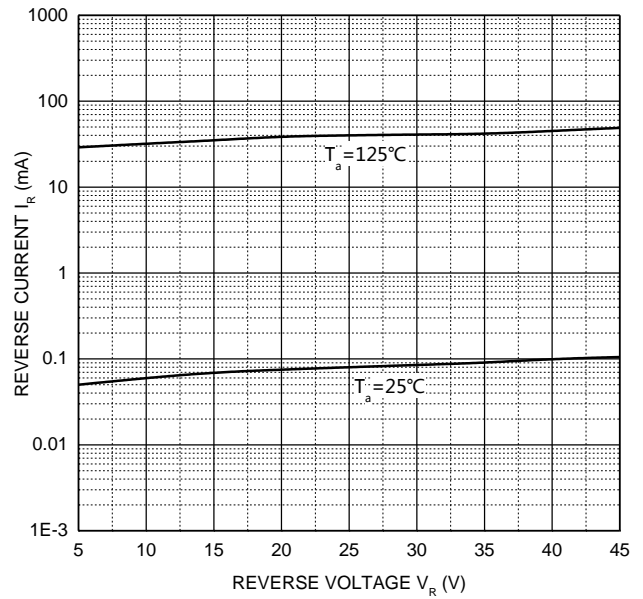
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=1\text{mA}$	45			V
Reverse current	I_R	$V_R=45\text{V}, T_a=25^{\circ}\text{C}$		100	500	μA
		$V_R=45\text{V}, T_a=125^{\circ}\text{C}$		50		mA
Forward voltage	V_F	$I_F=5\text{A}$			0.42	V
		$I_F=10\text{A}$			0.45	V
Typical total capacitance	C_{tot}	$V_R=4\text{V}, f=1\text{MHz}$		3100		pF

Typical Characteristics

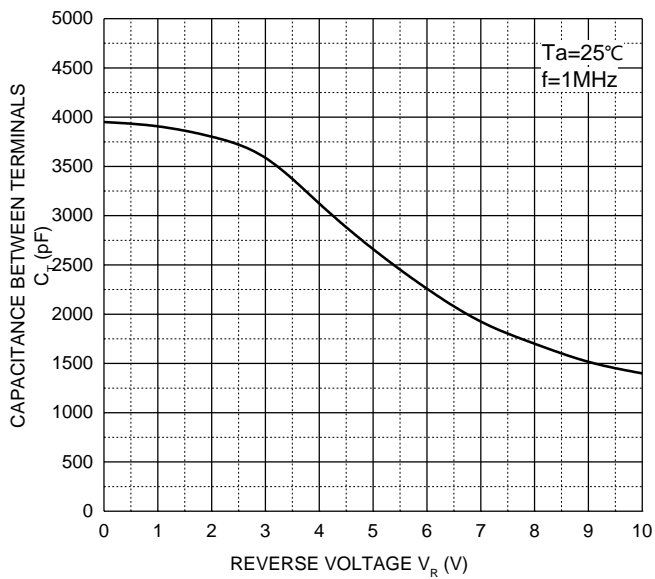
Forward Characteristics



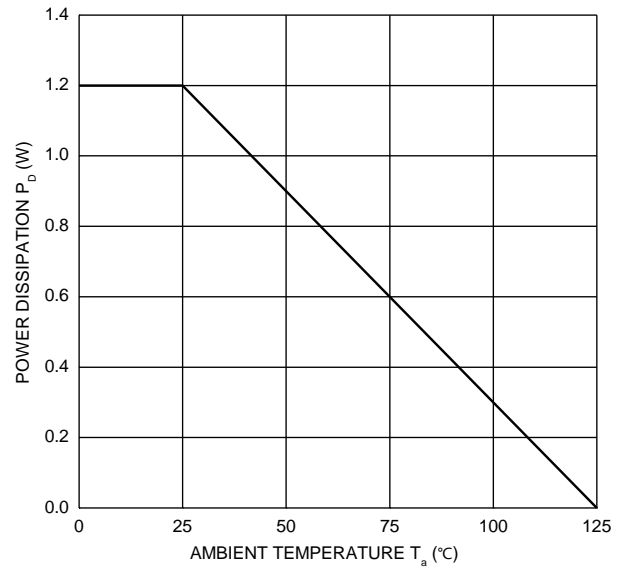
Reverse Characteristics



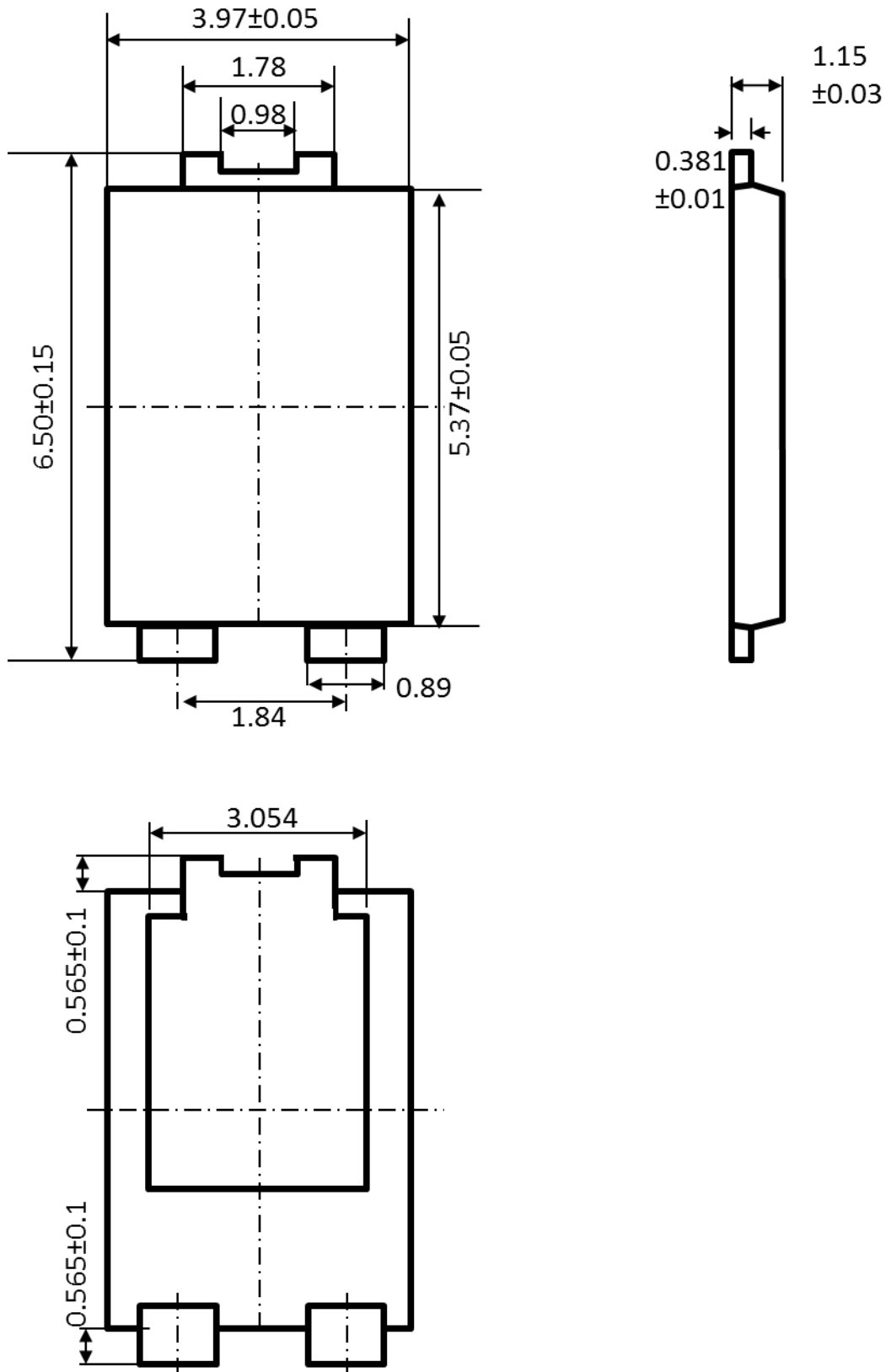
Capacitance Characteristics



Power Derating Curve



TO-277 Package Outline Dimensions



单击下面可查看定价，库存，交付和生命周期等信息

[>>GP\(格瑞宝\)](#)