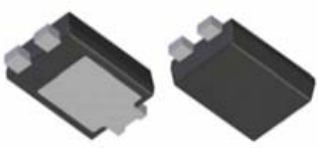

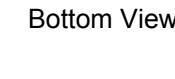
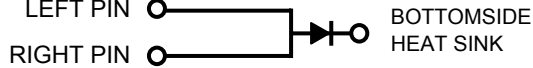


<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>■ High current capability, low forward voltage</li> <li>■ Excellent high temperature stability</li> <li>■ Low power loss, and high efficiency</li> <li>■ High Forward Surge Capability</li> <li>■ Patented package technology</li> </ul>	<p style="text-align: center;">Package: TO-277B</p> <div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Top View</p>  </div> <div style="text-align: center;"> <p>Bottom View</p>  </div> </div> <div style="margin-top: 10px;">  </div>
<p><b>APPLICATIONS</b></p> <ul style="list-style-type: none"> <li>■ Switching mode power supply applications</li> <li>■ Portable equipment battery applications</li> <li>■ High frequency rectification</li> <li>■ DC/DC Converter</li> <li>■ Designed as bypass diodes for solar panels</li> </ul>	
<p>特征应用：超薄封装，体积小，超低压降等特点</p>	

■ ABSOLUTE MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ , unless otherwise specified)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive peak reverse voltage	$V_{RRM}$	45	V
Maximum DC blocking voltage	$V_{RM}$	45	
Average forward current	$I_{F(AV)}$	10	A
Surge non repetitive forward current (8.3ms single half sine- wave)	$I_{FSM}$	278	
Single pulse davalanche energy ( $I_{AS}=12\text{A}$ , $L=10\text{mH}$ )	$E_{AS}$	530	mJ
Junction Temperature	$T_J$	150	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$	-55~+150	

■ Thermal Characteristics

CHARACTERISTIC	SYMBOL	RATING	UNIT
Thermal Resistance, Junction-to-Ambiene	$R_{QJA}$	31	$^{\circ}\text{C}/\text{W}$

■ Electrical Characteristics

Characteristic	Symbol	Test Condition	Rating			UNIT	
			Min	Typ	Max		
Forward voltage drop	$V_F$	$I_F=2\text{A}$	--	0.31	0.35	V	
		$I_F=8\text{A}$	--	0.37	0.38		
		$I_F=10\text{A}$	$T_J=25^{\circ}\text{C}$	--	0.41		0.47
			$T_J=100^{\circ}\text{C}$	--	0.36		0.41
Reverse leakage current	$I_R$	$V_R=\text{Max. } V_{RRM}$	$T_J=25^{\circ}\text{C}$	--	0.06	mA	
			$T_J=125^{\circ}\text{C}$	--	17		75

Fig-1. Typical Forward Characteristics

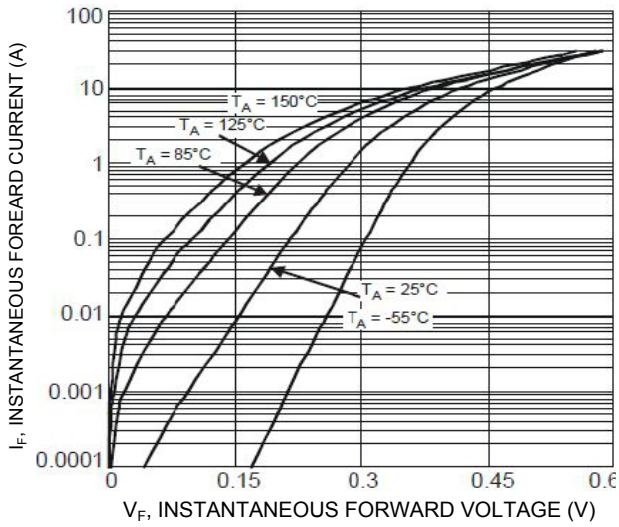


Fig-2. Typical Reverse Characteristics

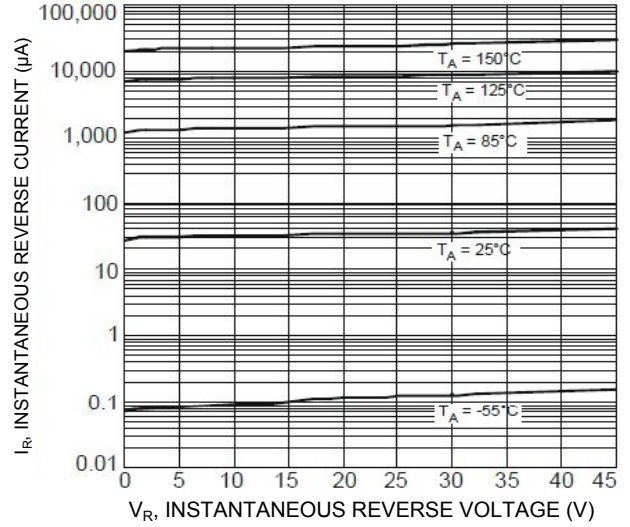


Fig-3. Forward Current Derating Curve

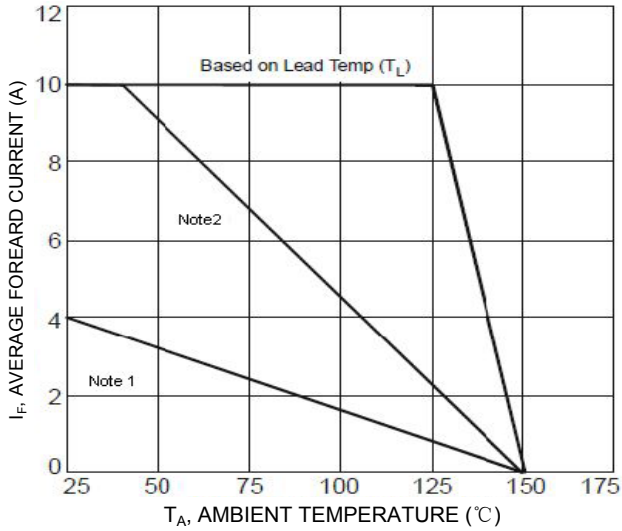


Fig-4. Operating Temperature Derating Curve

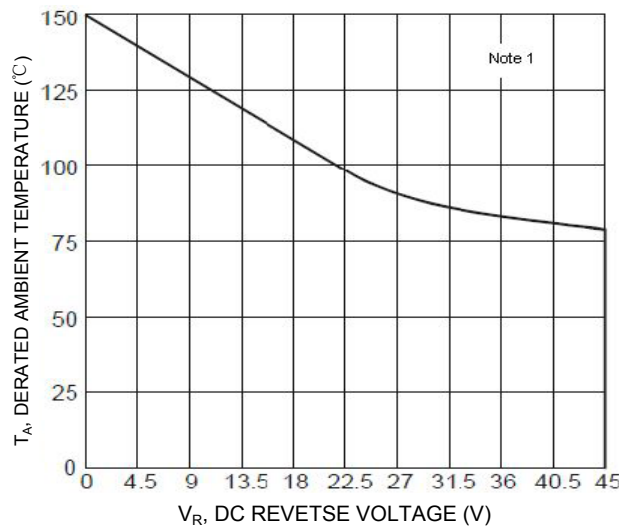
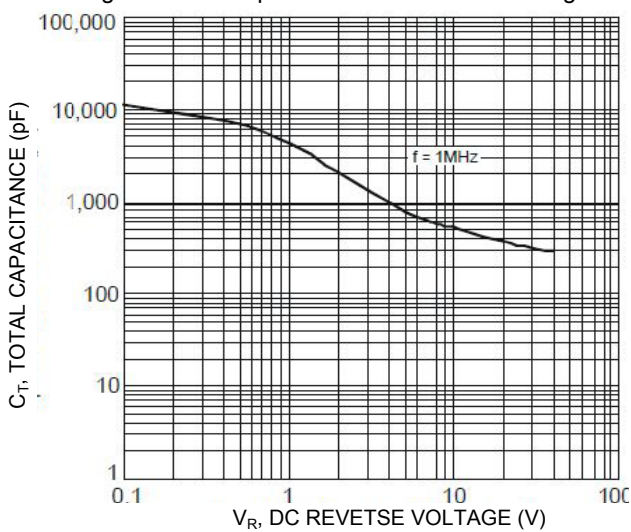
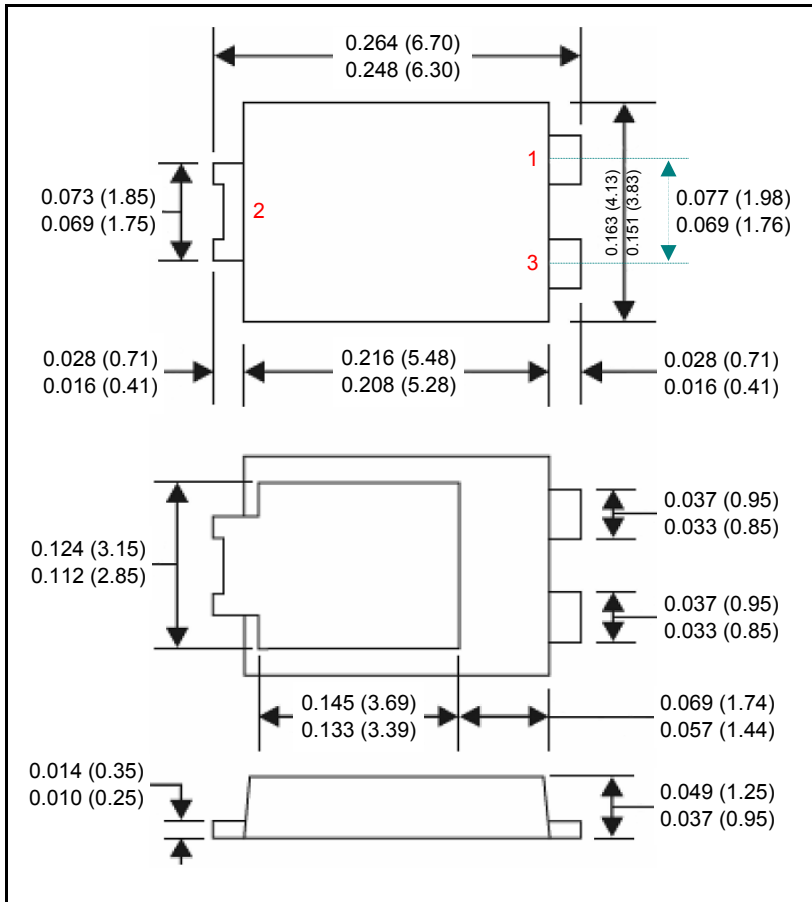


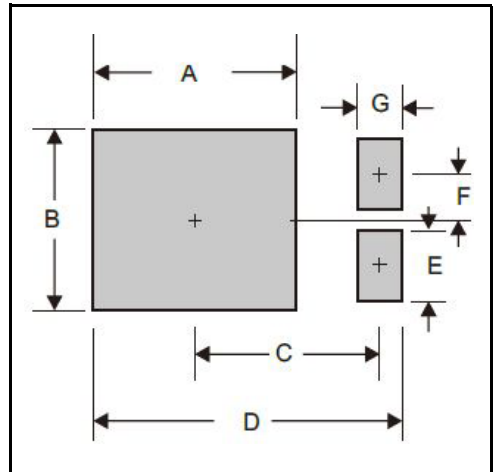
Fig-5. Total Capacitance VS. Reverse Voltage





SMD表面贴装  
TO-277  
TO-277B  
QFN5×6  
POWERDI5

Suggested Pad Layout  
PCB焊接布局建议参考



A	B	C	D	E	F	G
0.185(4.70)	0.142(3.60)	0.152(3.87)	0.260(6.60)	0.055(1.40)	0.035(0.90)	0.031(0.80)

TO-277B: Tape & Reel  
每卷数量: 5000只 (5Kpcs/Reel)  
每盒数量: 10000只 (10Kpcs/BOX)



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MAKOSEMI 为我公司正式注册商标，仿冒、盗用均属侵权，违法必究！