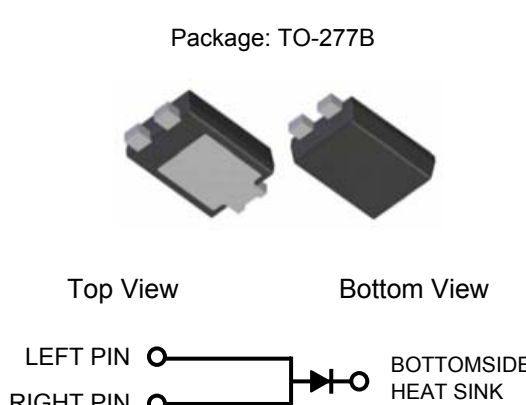


FEATURES ■ High current capability, low forward voltage ■ Excellent high temperature stability ■ Low power loss, and high efficiency ■ High Forward Surge Capability ■ Patented package technology	Package: TO-277B 
APPLICATIONS ■ Switching mode power supply applications ■ Portable equipment battery applications ■ High frequency rectification ■ DC/DC Converter ■ Designed as bypass diodes for solar panels	
特征应用：超薄封装，体积小，超低压降等特点	

■ 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	$^{\circ}\text{C/W}$

■ Electrical Characteristics

Characterisrtic	Symbol	Test Condition		Rating			UNIT
				Min	Typ	Max	
Fo rward 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	0.30	mA
			$T_J=125^{\circ}\text{C}$	--	17	75	

Fig-1. Typical Forward Characteristics

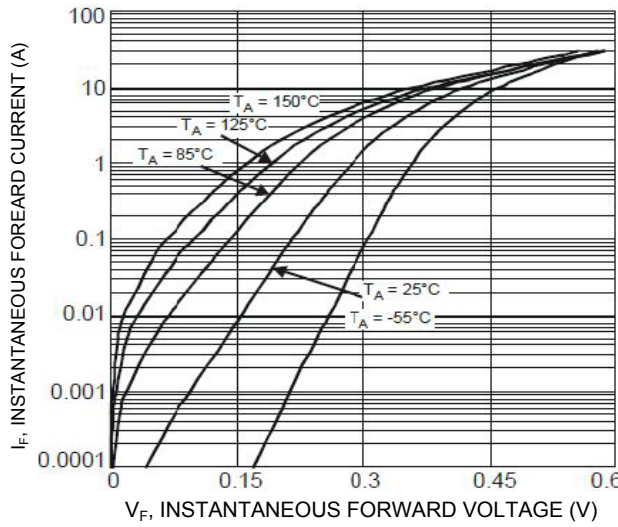


Fig-2. Typical Reverse Characteristics

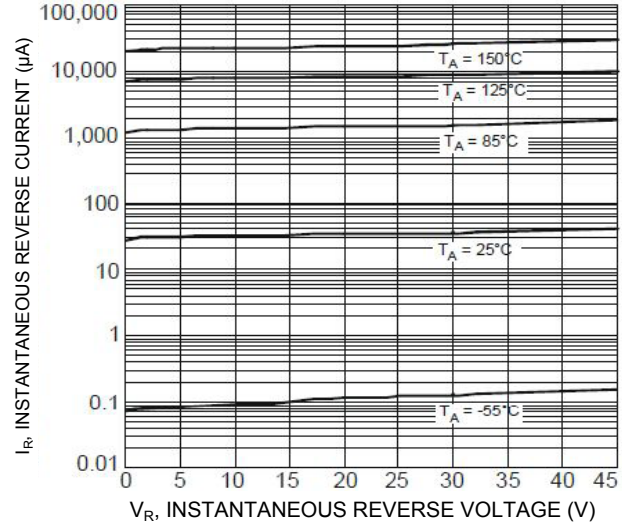


Fig-3. Forward Current Derating Curve

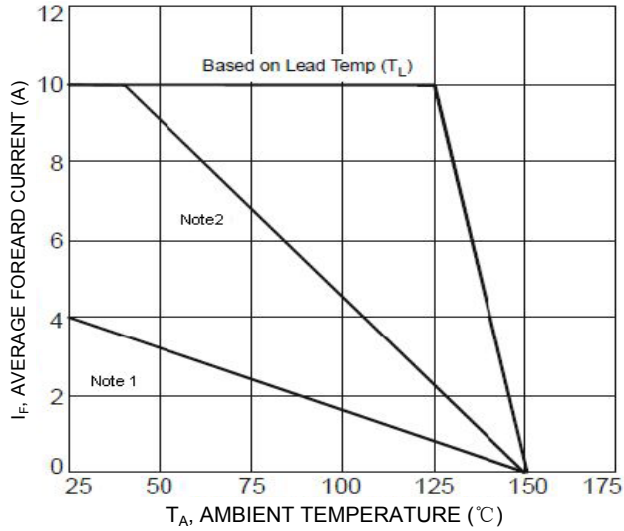


Fig-4. Operating Temperature Derating Curve

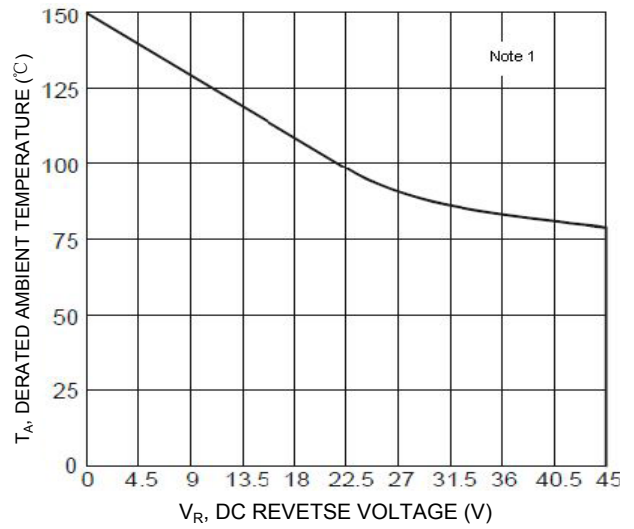
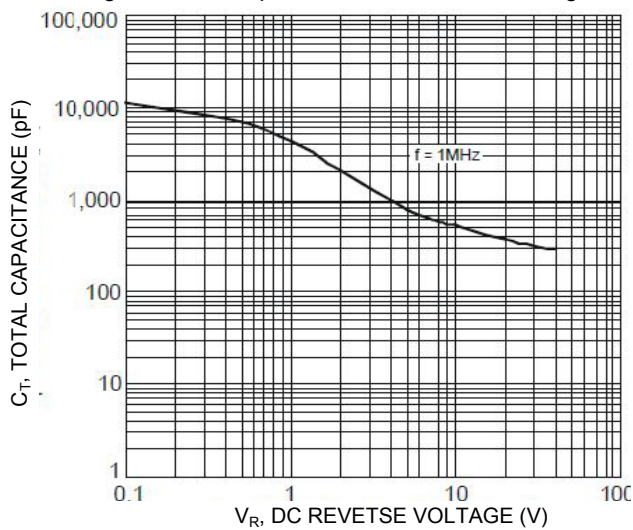
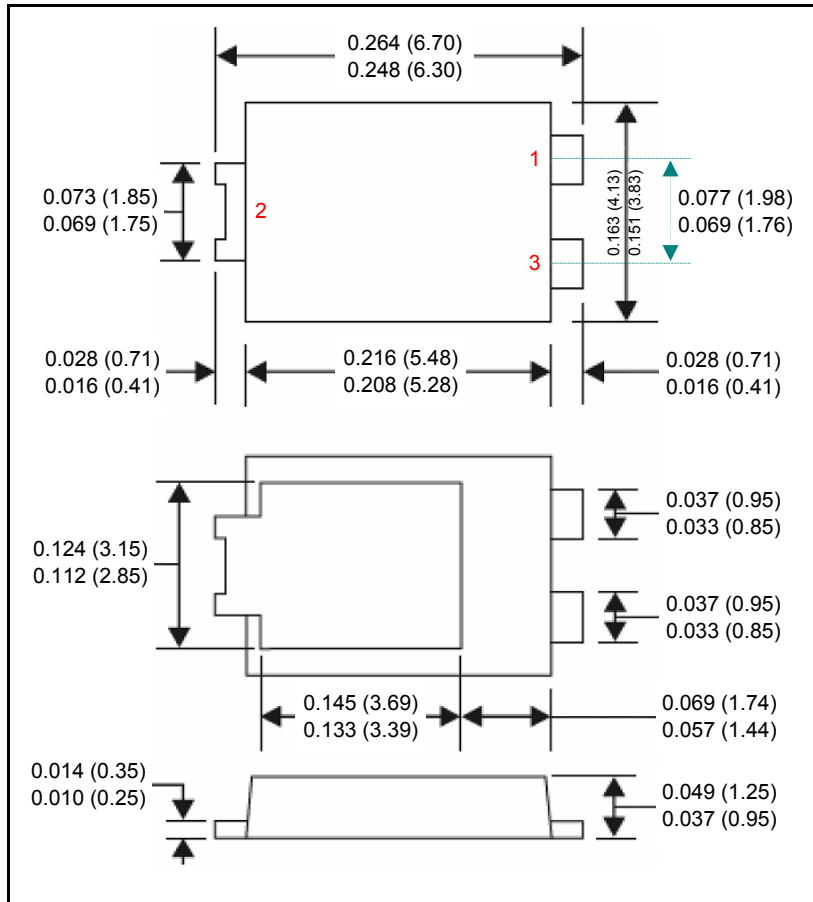
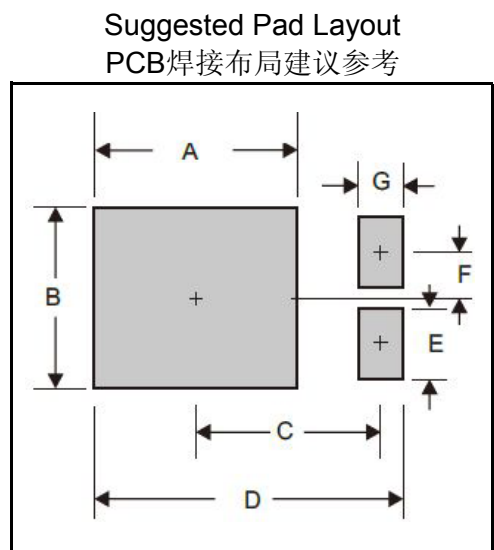


Fig-5. Total Capacitance VS. Reverse Voltage





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



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)



10A, 45V 贴片肖特基整流二极管 规格书

1045 TO-277B
Low VF Schottky Rectifier SMD



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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！