



MBR1645CT

肖特基二极管 SCHOTTKY Diodes

■ 特征 Features

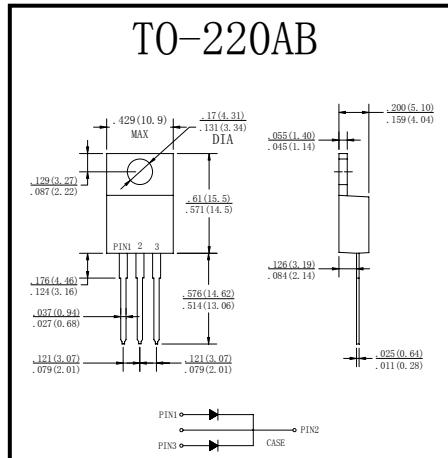
- 耐正向浪涌电流能力高
High surge forward current capability
 - 低功耗，大电流
Low Power loss, High efficiency
 - I_o 16.0A
 - V_{RRM} 45V

■用途 Applications

- 快速整流用
High speed switching

■ 极限值（绝对最大额定值）

Limiting Values (Absolute Maximum Rating)



参数名称 Item	符号 Symbol	单位 Unit	条件	MBR
				1645CT
反向重复峰值电压 <i>Repetitive Peak Reverse Voltage</i>	V _{RRM}	V		45
平均整流输出电流 <i>Average Rectified Output Current</i>	I _o	A	60Hz 正弦波, 电阻负载, T _a =25°C 60Hz sine wave, R- load, T _a =25°C	16
正向(不重复)浪涌电流 <i>Surge(Non-repetitive)Forward Current</i>	I _{FSM}	A	60Hz正弦波, 一个周期, T _a =25°C 60Hz sine wave, 1 cycle, T _a =25°C	100
正向浪涌电流的平方对电流浪涌持续时间的积分值 <i>Current Squared Time</i>	I ² t	A ² s	1ms≤t<8.3ms T _j =25°C, 单个二极管 1ms≤t<8.3ms T _j =25°C, Rating of per diode	41
贮存温度 <i>Storage Temperature</i>	T _{stg}	°C		-55 ~ +150
结温 <i>Junction Temperature</i>	T _j	°C	在正向直流条件下, 没有施加反向压降, 通电≤1h (图示1) ① IN DC Forward Mode-Forward Operations, without reverse bias, t ≤1 h (Fig. 1)①	-55 ~ +150

■ 电特性 ($T_a=25^\circ\text{C}$ 除非另有规定)

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition	最大值
				Max
				MBR
				1645CT
正向峰值电压 Peak Forward Voltage	V_{FM}	V	$ I_{FM} = 10.0A$	0.7
反向峰值电流 Peak Reverse Current	I_{RRM1}	mA	$V_{RM} = V_{RRM}$	$T_a = 25^\circ C$
	I_{RRM2}			$T_a = 100^\circ C$
热阻 Thermal Resistance	$R_{\theta J-C}$	°C/W	结和壳之间 Between junction and case	2.0



■ 特性曲线(典型) Characteristics(Typical)

图1: 正向电流降额曲线

FIG1: IF (AV) --Tc Derating

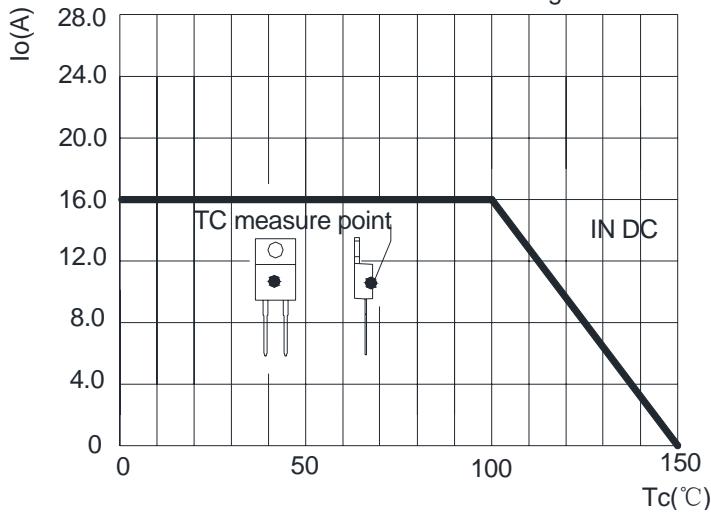


图2: 耐正向浪涌电流曲线

FIG2: Surge Forward Current Capability

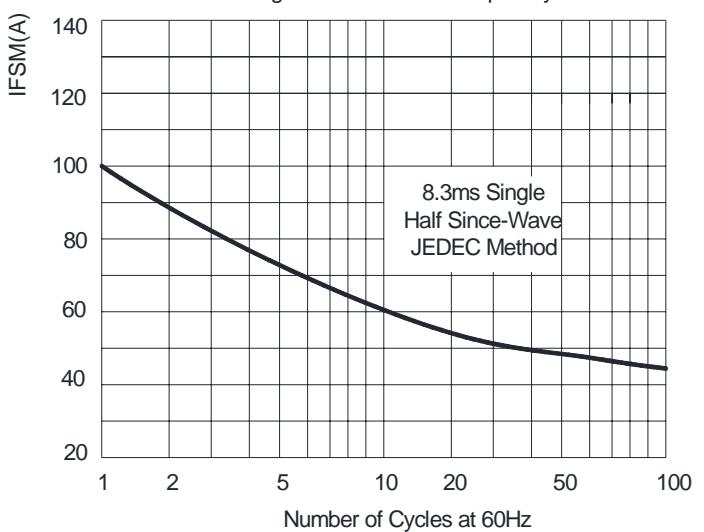


图3: 正向电压曲线

FIG3: Instantaneous Forward Voltage

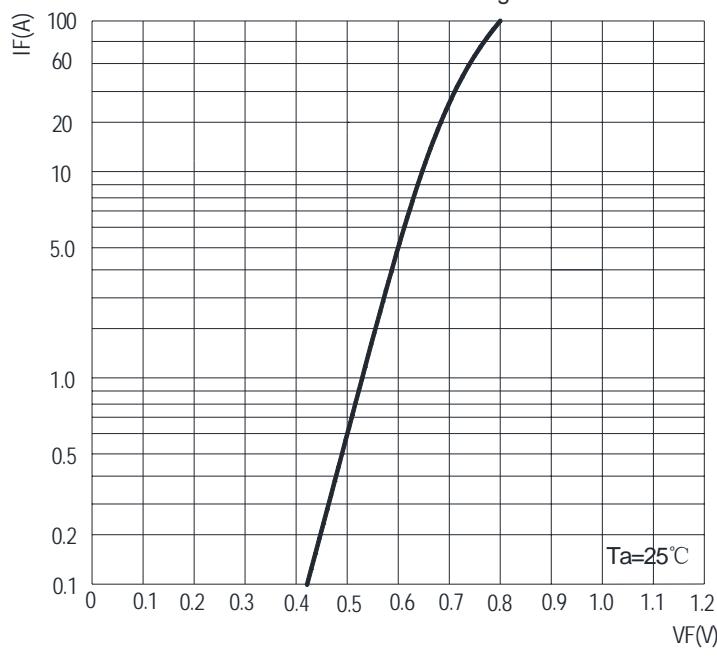


图4: 反向电流曲线

FIG4: Typical Reverse Characteristics

