MBR4035PT THRU MBR40100PT

RoHS COMPLIANT

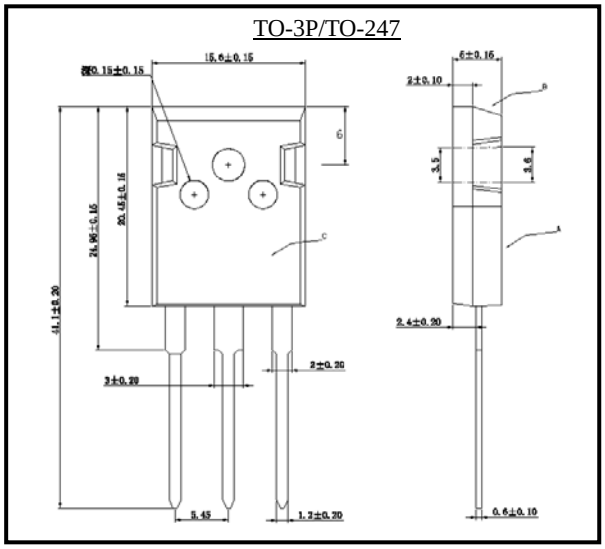
肖特基二极管 Schottky Rectifier

■特征 Features

- I_o 40A
- V_{RRM} 35V-100V
- 耐正向浪涌电流能力高
  High surge current capability
- 封装：模压塑料
  Cases: Molded plastic

■外形尺寸和印记 Outline Dimensions and Mark

TO-3P/TO-247



■用途 Applications

- 整流用 Rectifier

■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	测试条件 Test Conditions	MBR40-PT						
				35	40	45	50	60	90	100
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V		35	40	45	50	60	90	100
正向平均电流 Average Forward Current	$I_{F(AV)}$	A	正弦半波60Hz，电阻负载，Tc(Fig.1) 60HZ Half-sine wave, Resistance load, Tc(Fig.1)	40.0						
正向（不重复）浪涌电流 Surge(Non-repetitive)Forward Current	I_{FSM}	A	正弦半波60Hz，一个周期，Ta=25℃ 60Hz Half-sine wave ,1 cycle , Ta =25℃	400						
结温 Junction Temperature	T_J	℃		-55~+150						
储存温度 Storage Temperature	T_{STG}	℃		-55 ~ +150						

■电特性 （Ta=25℃ 除非另有规定）
Electrical Characteristics (T_a=25℃ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition		MBR40-PT						
					35	40	45	50	60	90	100
正向峰值电压 Peak Forward Voltage	V_F	V	I_F=20.0A		0.70		0.75			0.85	
反向漏电流 Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	T_a =25℃	1.0						
	I_{RRM2}			T_a =125℃	100						
热阻(典型) Thermal Resistance(Typical)	$R_{\theta J-C}$	℃/W	结和壳之间 Between junction and case		1.2						

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■特性曲线（典型） Characteristics(Typical)

图1：正向电流降额曲线
FIG.1: FORWARD CURRENT DERATING CURVE

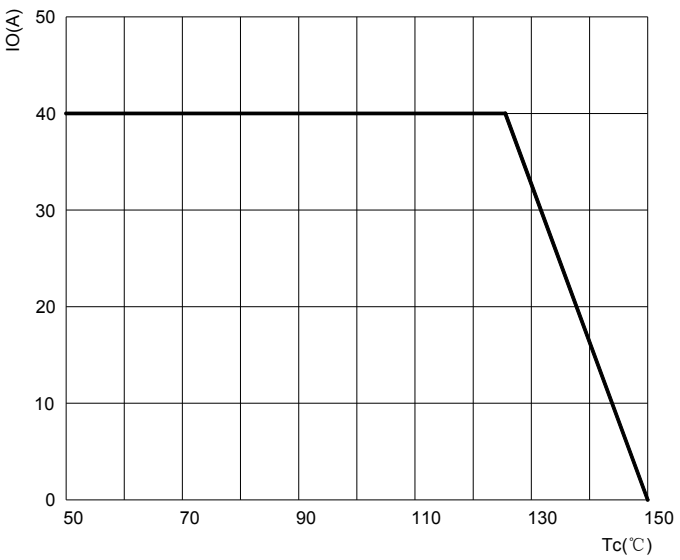


图2：最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

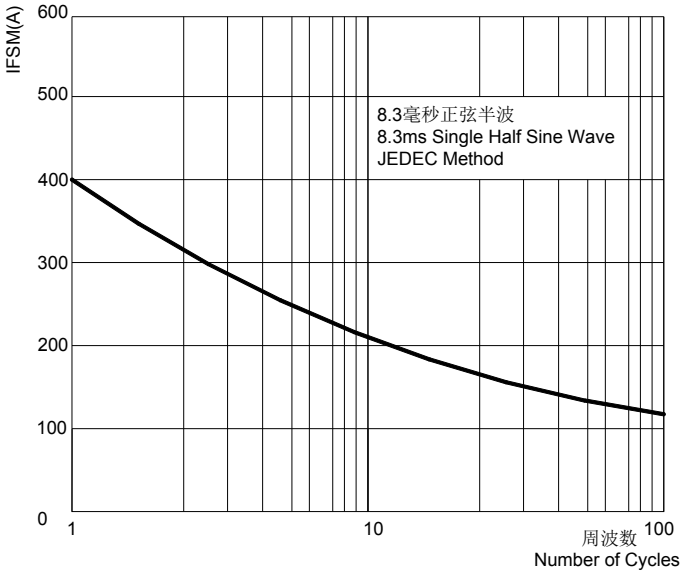


图3: 典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

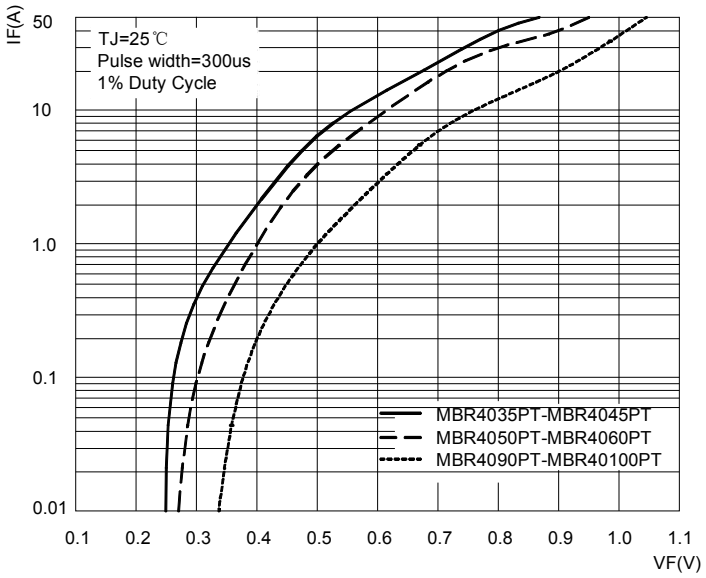


图4：典型反向特性曲线
FIG.4：TYPICAL REVERSE CHARACTERISTICS

