SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

MBR3035PT -MBR30100PT

Voltage :35 ~100 V
Current: 30 A

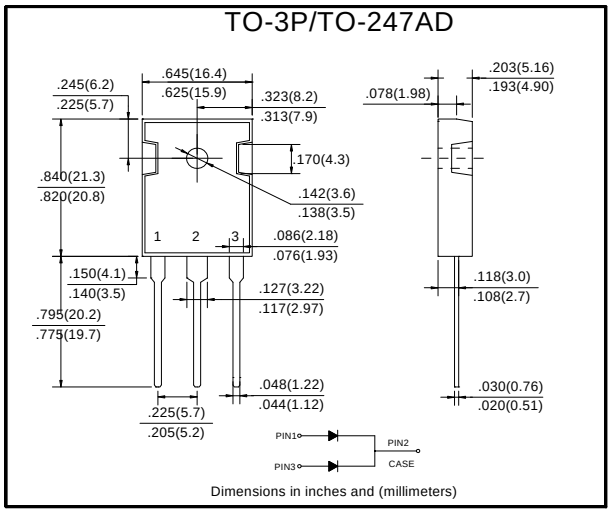
■ FEATURES

- High surge current capability
- Cases: Molded plastic

■ APPLICATIONS

- Rectifier

■ Outline Dimensions and Mark



■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	MBR30-PT						
				35	40	45	50	60	90	100
Repetitive Peak Reverse Voltage	V_{RRM}	V		35	40	45	50	60	90	100
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	30.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave ,1 cycle , Ta =25℃	250						
Junction Temperature	T_J	℃		-55~+150						
Storage Temperature	T_{STG}	℃		-55 ~ +150						

■ Electrical Characteristics (T_a=25℃ Unless otherwise specified)

Item	Symbol	Unit	Test Condition		MBR30-PT						
					35	40	45	50	60	90	100
Peak Forward Voltage	V_F	V	I_F=15.0A		0.70		0.75			0.85	
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	T_a =25℃	1.0					5.0	
	I_{RRM2}			T_a =125℃	60					100	
Thermal Resistance(Typical)	$R_{\theta J-C}$	℃/W	Between junction and case		1.4						

Email: Sales@micindia.com Website: www.micindia.com

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■ Characteristics(Typical)

FIG.1: FORWARD CURRENT DERATING CURVE

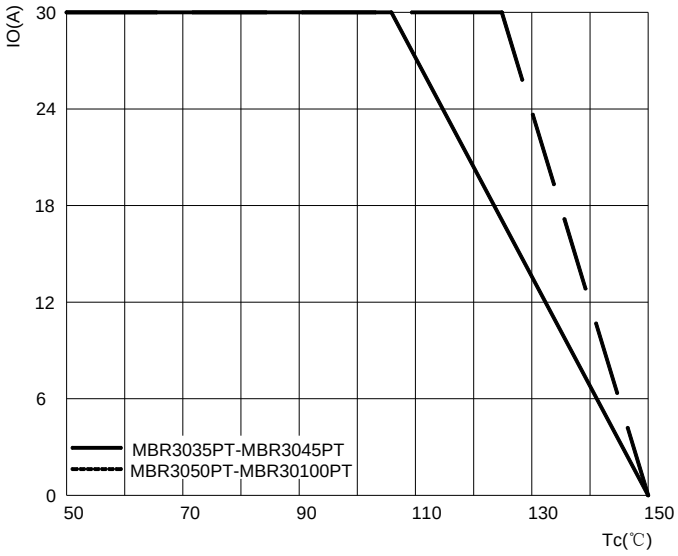


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

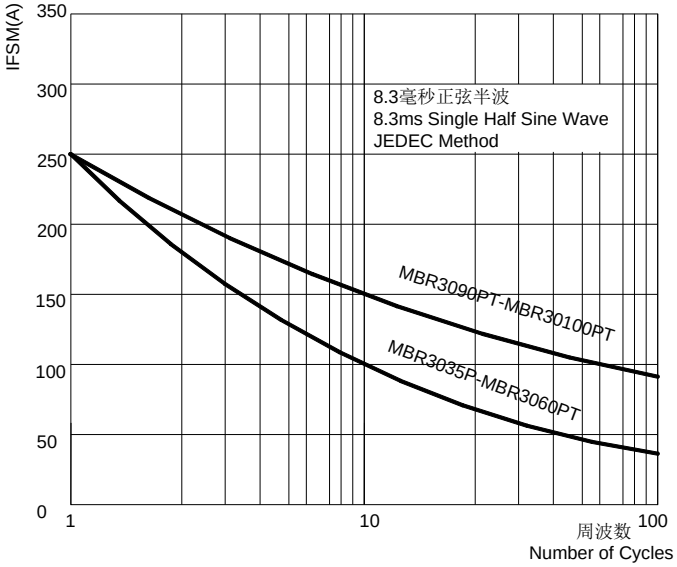


FIG.3: TYPICAL FORWARD CHARACTERISTICS

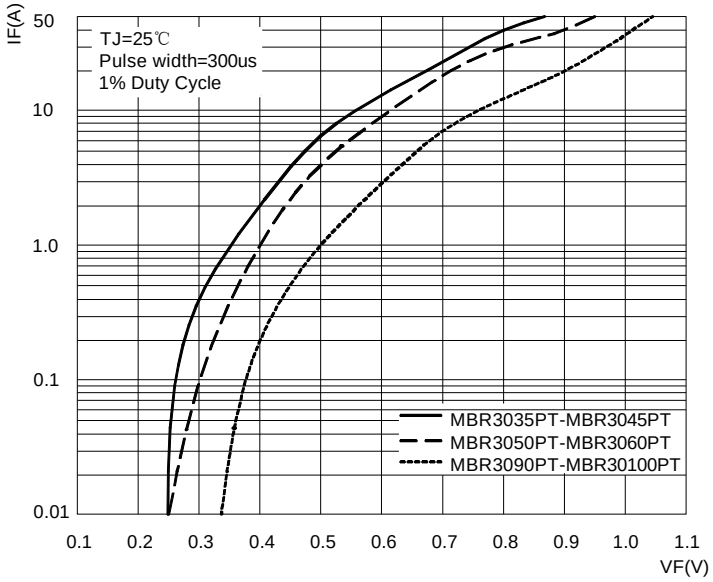
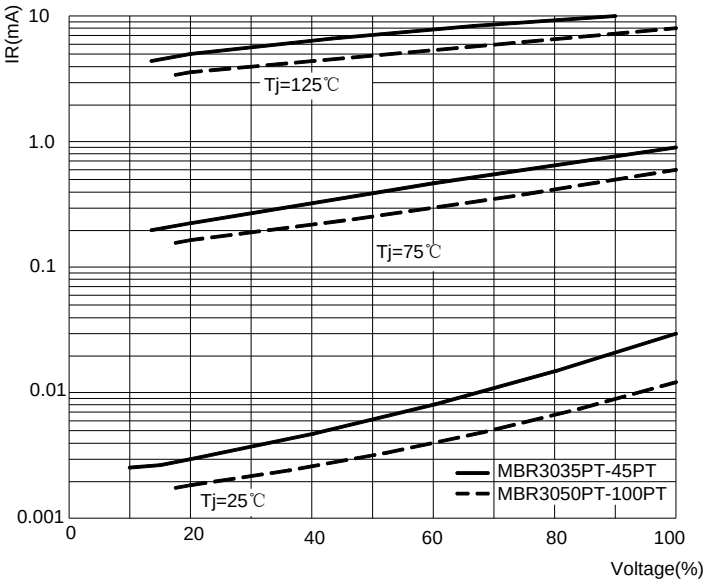


FIG.4：TYPICAL REVERSE CHARACTERISTICS



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