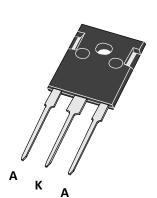
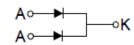




Schottky Barrier Rectifiers





Features

- Multilayer Metal -Silicon Potential Structure.
- •Low Leakage Current.
- High Current Capability, High Efficiency.
- High Junction Temperature Capability.

Typical Applications

- •Low Voltage High Frequency Switching Power Supply.
- •Low Voltage High Frequency Invers Circuit.
- •Low Voltage Continued Circuit and Protection Circuit. For use in ultra-low forward voltage drop to maximize efficiency in Power Supply applications.

Mechanical Data

Package: TO-247AB
 Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: As marked

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR3045PT	
Device marking code			MBR3045PT	
Repetitive peak reverse voltage	VRRM	V	45	
Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle, Tc (FIG 1)	IFAV	А	30	
Surge(non-repetitive)forward current (Rated Load 8.3 Half Mssine Wave-According to JEDEC Method), Ta=25 [°] C	IFSM	А	290	
Storage temperature	TSTG	$^{\circ}$	-40 ~+150	
Junction temperature	TJ	$^{\circ}$	-40 ~+150	

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS		MBR3045PT	
Maximum instantaneous forward voltage drop per diode	VF	V	IF=15A	TJ=25℃	0.66	
	VF	V		TJ=125℃	0.6	
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	IRRM	mA	TJ=25℃		0.05	
			TJ=125℃		15	

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR3045PT
Typical Thermal Resistance(Per leg)	R ₀ J-C	°C/W	0.5

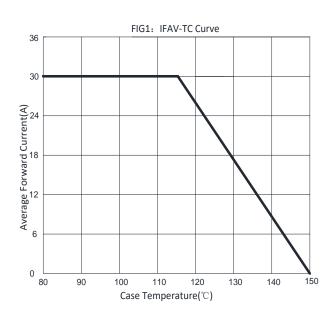


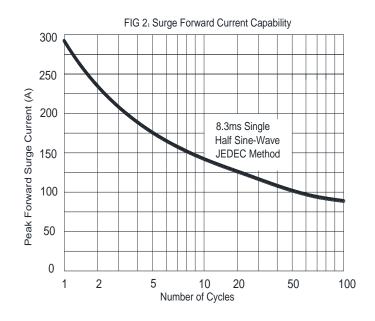
MBR3045PT

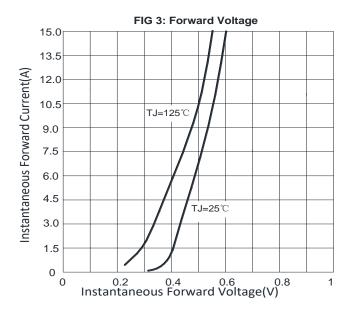
■Ordering Information (Example)

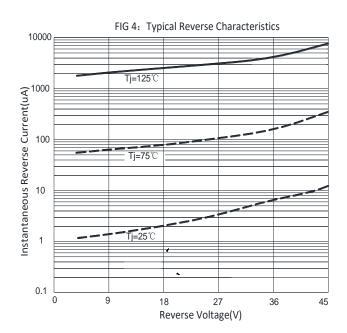
PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR3045PT	Approximate 5.87	30	360	1800	Tube

■ Characteristics(Typical)





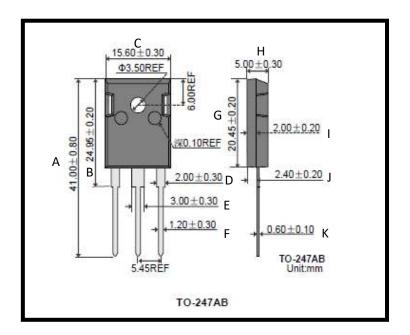








■ Outline Dimensions



TO-247AB					
Dim	Min	Max			
Α	40.20	41.80			
В	24.75	25.15			
С	15.30	15.90			
D	1.70	2.30			
Ш	2.70	3.30			
F	0.90	1.50			
G	20.25	20.65			
Н	4.70	5.30			
I	1.80	2.20			
J	2.20	2.60			
K	0.50	0.70			



MBR3045PT

Disclaimer

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