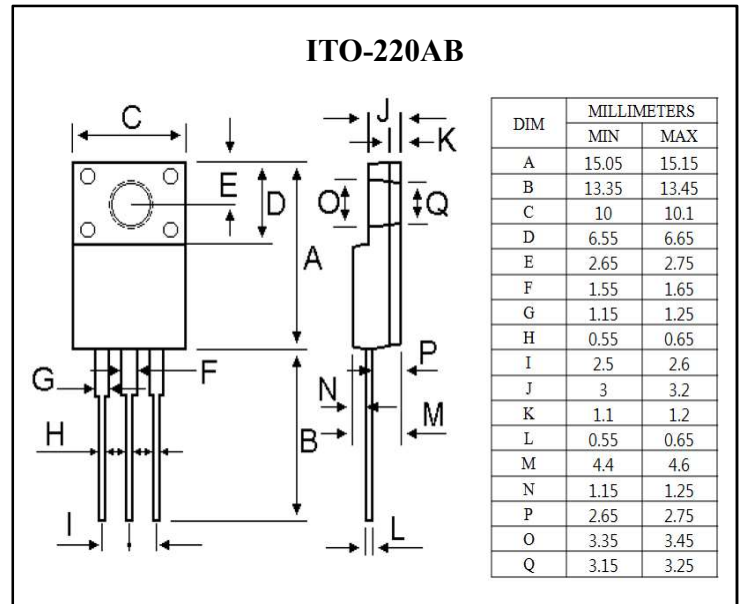
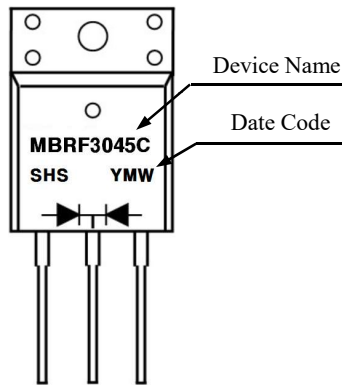
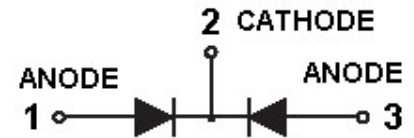


**Dual Schottky Barrier Power Rectifier**  
**Reverse Voltage 45 Volts Forward Current 30 Amperes**

Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

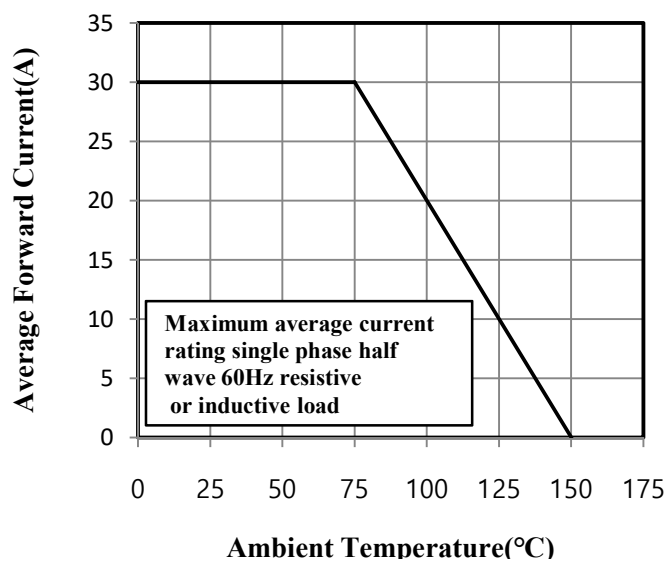
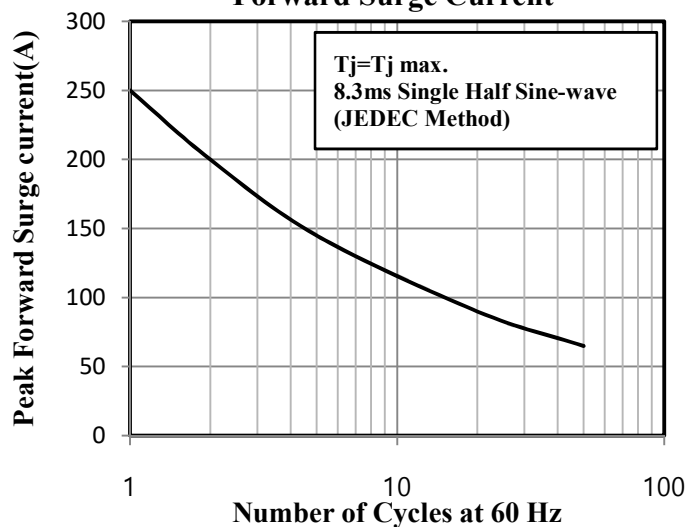
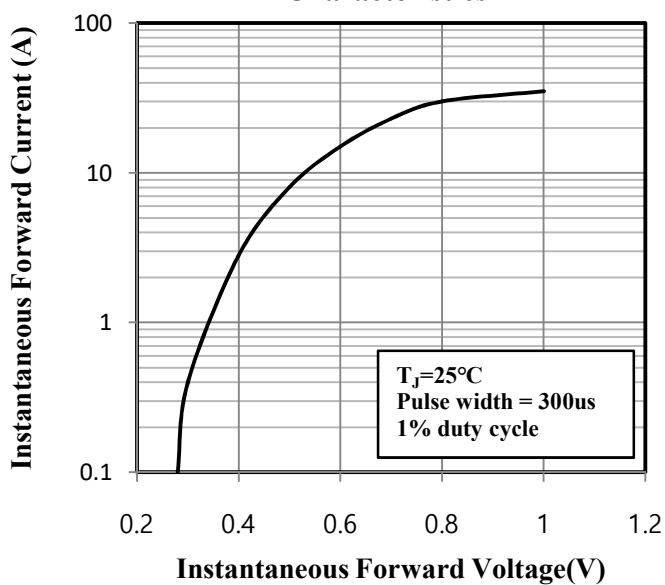
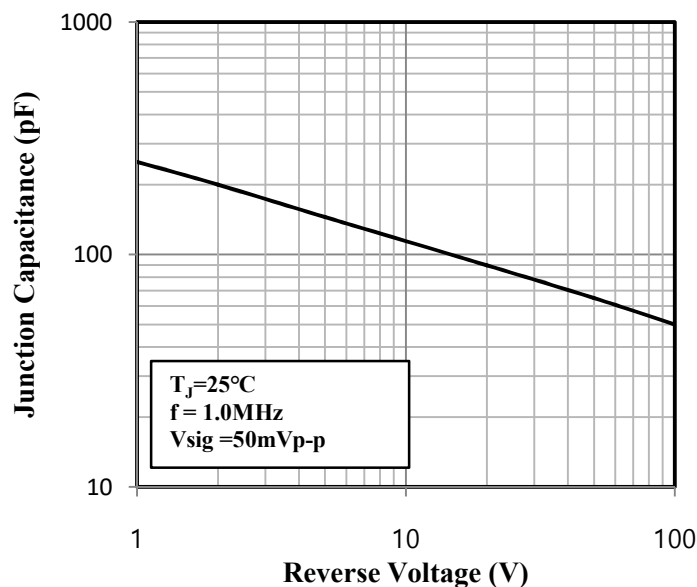
**Features**

- Low Forward Voltage.
- Low Switching noise.
- High Current Capacity
- Guarantee Reverse Avalanche.
- Guard-Ring for Stress Protection.
- Low Power Loss & High efficiency.
- 150°C Operating Junction Temperature
- Low Stored Charge Majority Carrier Conduction.
- Plastic Material used Carries Underwriters Laboratory

**Marking****Equivalent Circuit****Maximum Ratings & Electrical Characteristics**

Parameter	Symbol	Rated Value	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	45	V	
Maximum RMS Voltage	$V_{RMS}$	32	V	
Maximum DC Blocking Voltage	$V_{DC}$	45	V	
Maximum Average Forward Rectified Current (Rated $V_R$ )	$I_F(AV)$	15	A	per diode
		30		total device
Peak Repetitive Forward Current (per diode) (Rate $V_R$ , Square Wave, 20kHz)	$I_{FM}$	20	A	
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	250	A	
Maximum Instantaneous Forward Voltage at 15A	$V_F$	0.7	V	$T_a=25^{\circ}C$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.2	mA	$T_a=25^{\circ}C$
		100	mA	$T_a=100^{\circ}C$
Operation Junction Temperature Range	$T_J$	-55 to +150	$^{\circ}C$	
Storage Temperature Range	$T_{STG}$	-55 to +150	$^{\circ}C$	

Ratings and Characteristics Curves ( $T_a=25^{\circ}\text{C}$  unless otherwise noted)

**Fig.1 Forward Current Derating Curve**

**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**

**Fig.3 Typical Instantaneous Forward Characteristics**

**Fig.4 Typical Junction Capacitance**

**Fig.5 Typical Reverse Characteristics**
