



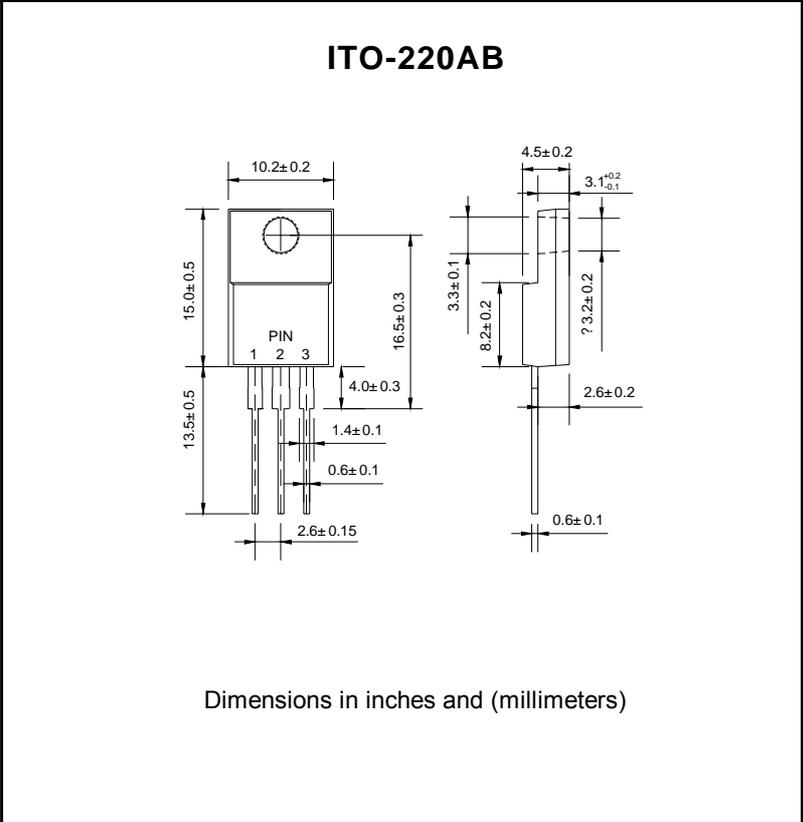
<b>SCHOTTKY BARRIER RECTIFIERS</b>	<b>REVERSE VOLTAGE - 30 to 150Volts</b> <b>FORWARD CURRENT - 40.0 Amperes</b>
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**FEATURES**

- Metal of silicon rectifier , majority carrier conduction
- Guard ring for transient protection
- Low power loss,high efficiency
- High current capability,low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications

**MECHANICAL DATA**

- Case: ITO-220AB molded plastic
- Polarity: As marked on the body
- Weight: 0.2ounces,5.6 grams
- Mounting position :Any



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	MBR	MBR	MBR	MBR	MBR	MBR	MBR	UNIT	
		4030FCT	4040FCT	4050FCT	4060FCT	4080FCT	40100FCT	40150FCT		
Maximum Recurrent Peak Reverse Voltage	VRRM	30	40	50	60	80	100	150	V	
Maximum RMS Voltage	VRMS	21	28	35	42	56	70	105	V	
Maximum DC Blocking Voltage	VDC	30	40	50	60	80	100	150	V	
Maximum Average Forward Rectified Current ( See Fig.1) @Tc=100°C	I(AV)	40							A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	375							A	
Peak Forward Voltage at 20.0A DC	VF	0.55		0.70		0.85		0.95	V	
Maximum DC Reverse Current @Tj=25°C at Rated DC Bolcking Voltage @Tj=100°C	IR	1.0							100	mA
Typical Junction Capacitance (Note1)	CJ	800							pF	
Typical Thermal Resistance (Note2)	RθJC	1.4							°C/W	
Operating Temperature Range	TJ	-55 to + 125							°C	
Storage Temperature Range	TSTG	-55 to + 150							°C	

NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0VDC.

2.Thermal resistance junction to case.

FIG. 1 – FORWARD CURRENT DERATING CURVE

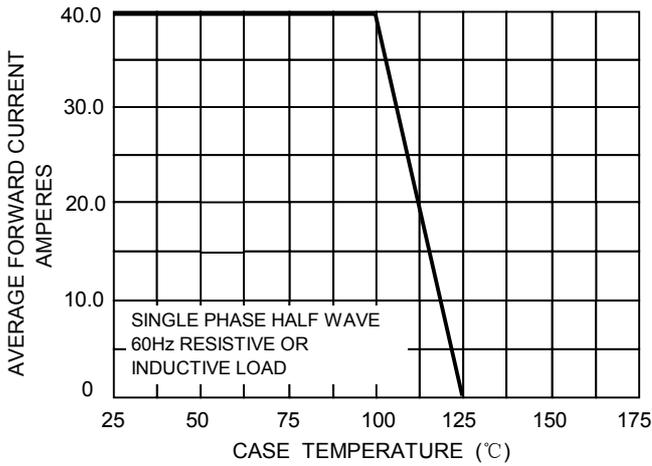


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

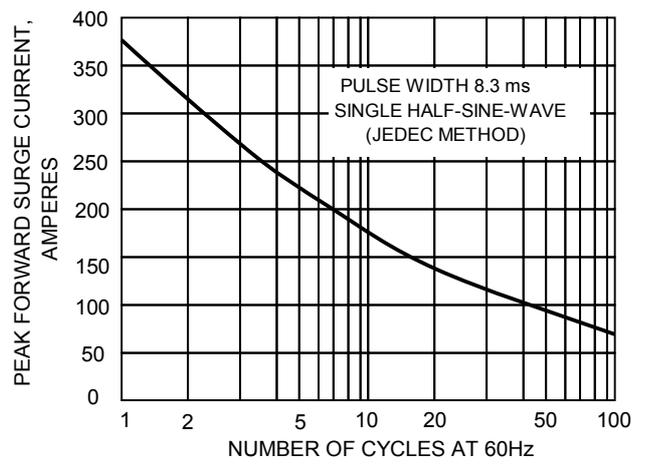


FIG.3-TYPICAL REVER CHARACTERISTICS

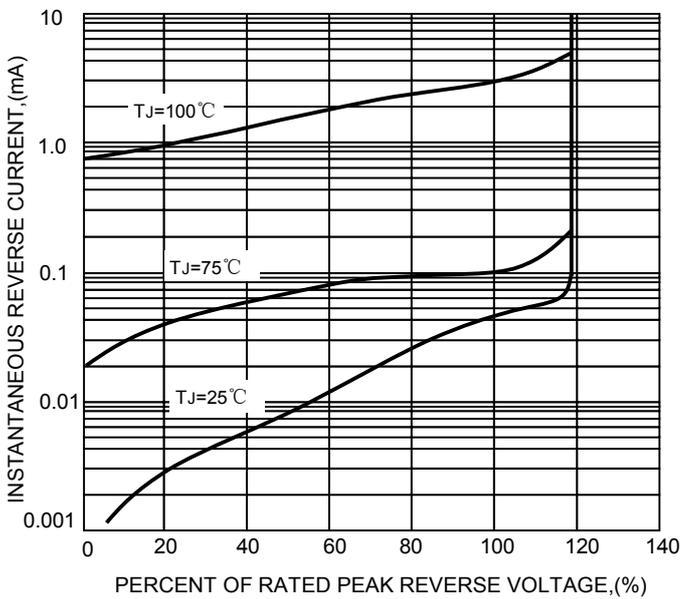


FIG.4-TYPICAL FORWARD CHARACTERISTICS

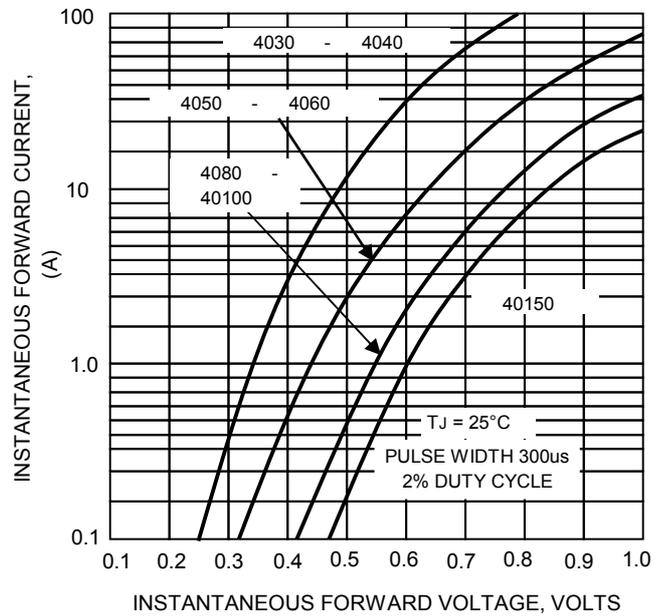


FIG.5 – TYPICAL JUNCTION CAPACITANCE

