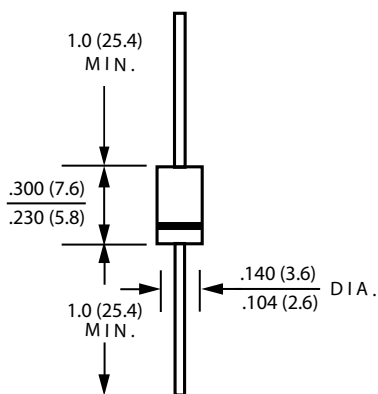


# Schottky Barrier Rectifiers



**DO - 15**

Dimensions in inches and (millimeters)



### Features

- Guardring for overvoltage protection
- Very small conduction losses
- Low forward voltage drop
- Component in accordance to RoHS 2002/95/EC

### Mechanical Data

- Cases: DO-15
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead free Plating (Tin Finish)  
Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.373 grams (approximate)

PRIMARY CHARACTERISTICS	
$I_F$	3A
$V_{RRM}$	40V
$I_{FSM}$	80 A
$V_F$	0.55V
$T_J$ max	125°C

### ❖ ORDER/MARKING INFORMATION

Order Information	Top Marking
<p>Ordering code: B X X X X X</p> <p>Peak Current 3: 3A</p> <p>Voltage 40: 40V</p> <p>Assembly Material Blank: G: Halogen and Lead Free Device</p> <p>Type Blank: DO-15</p>	<p>AXE YW</p> <p>B340 XX</p> <p>W: 01~26(A-Z) 27~52(a-z) Year: A = 2010 1 = 2011</p> <p>Assembly Material Blank: G: Halogen and Lead Free Device</p> <p>ID code: Internal</p>

MAXIMUM RATINGS (TA=25°C unless otherwise noted)			
PARAMETER	SYMBOL	B340	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	V
Maximum RMS voltage	$V_{RMS}$	28	V
Maximum DC blocking voltage	$V_{DC}$	40	V
Maximum average forward rectified current	$I_F$	3.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	80.0	A
Maximum Instantaneous Forward Voltage @ 3.0A	$V_F$	0.55	V
Maximum DC Reverse Current @ TA=25°C	$I_R$	0.5	mA
at Rated DC Blocking Voltage @ TA=100°C		10.0	
Typical Junction Capacitance(NOTE1)	$C_J$	180	pF
Typical Thermal Resistance	$R_{\theta JA}$	60	°C/W
Operating Temperature Range	$T_J$	-55 to +125	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C

NOTES:1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

# Schottky Barrier Rectifiers

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

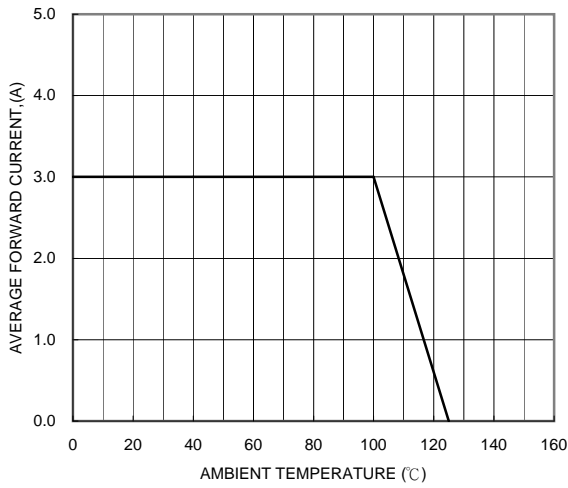


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

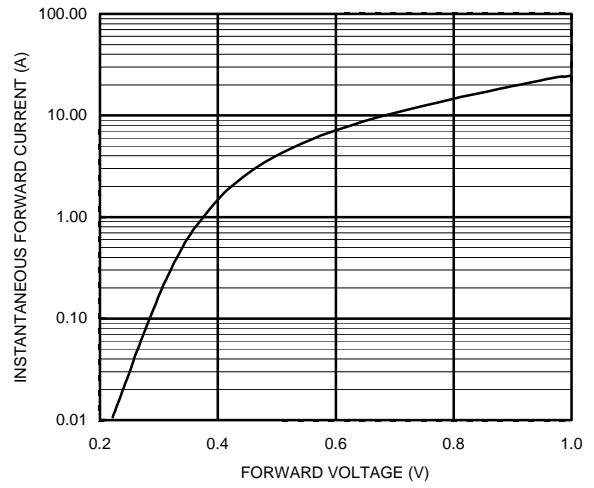


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

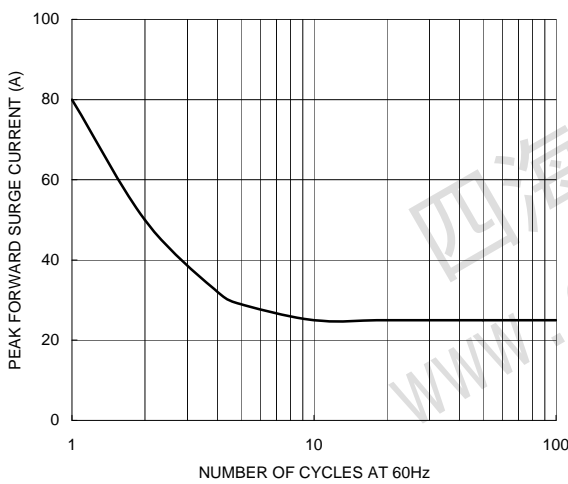


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

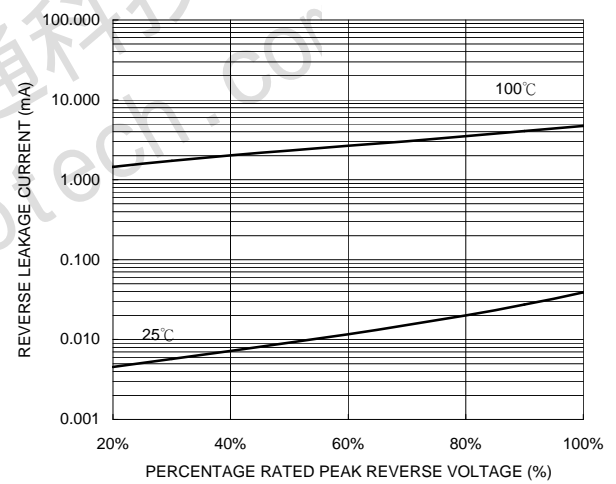


FIG. 5-TYPICAL JUNCTION CAPACITANCE

