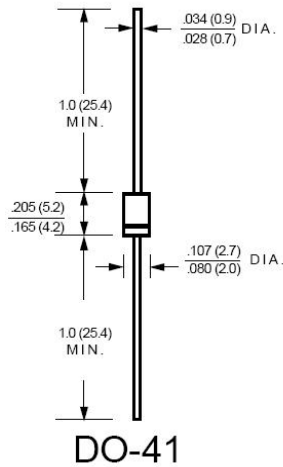


**Schottky Barrier Rectifiers**



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-41
- 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: 0.318 grams (approximate)

PRIMARY CHARACTERISTICS	
$I_F$	2 A
$V_{RRM}$	40V
$I_{FSM}$	50 A
$V_F$	0.50V
$T_J$ max	125°C

Order Information	Top Marking
<p>                     B X X X X X → Assembly Material Blank :                      G : Halogen and Lead Free Device                      Type S : DO-41                      Peak Current 2: 2A                      Voltage 40: 40V                 </p>	<p>                     AXE YW                      B240S XX                      W : 01~26(A-Z)                      27~52(a-z)                      Year : A = 2010                      Assembly Material Blank :                      G : Halogen and Lead Free Device                      ID code : Internal                      S : B240S                 </p>

MAXIMUM RATINGS (TA=25°C unless otherwise noted)			
PARAMETER	SYMBOL	B240S	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	
Maximum RMS voltage	$V_{RMS}$	28	
Maximum DC blocking voltage	$V_{DC}$	40	
Maximum average forward rectified current	$I_F$	2.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	50.0	A
Maximum Instantaneous Forward Voltage @ 2.0A	$V_F$	0.50	
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	$C_J$	150	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

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

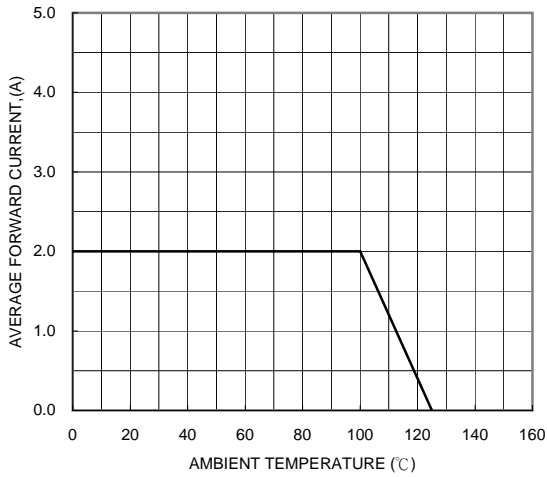


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

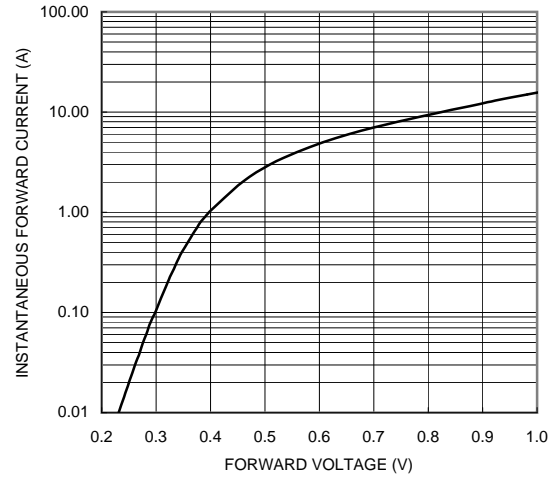


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

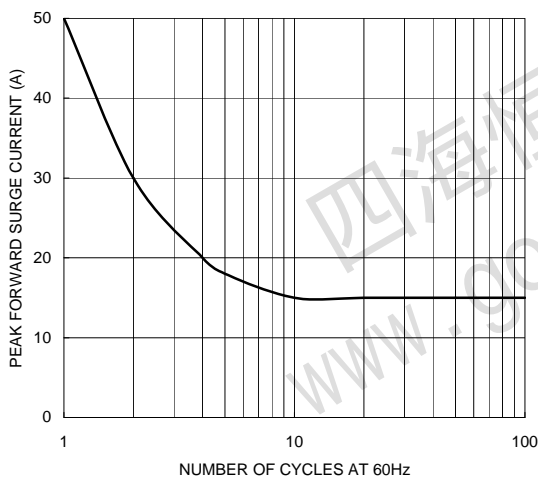


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

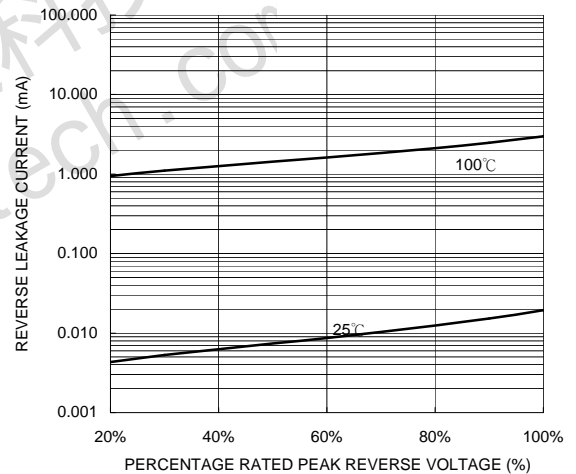


FIG. 5-TYPICAL JUNCTION CAPACITANCE

