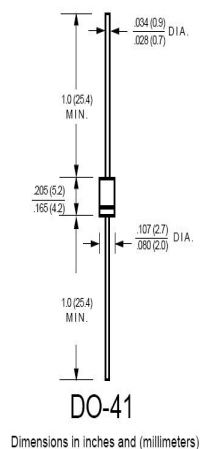


Schottky Barrier Rectifiers



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)

❖ ORDER/MARKING INFORMATION

Order Information	Top Marking
B X X X X X → Assembly Material Blank : G : Halogen and Lead Free Device Peak Current 1: 1A Voltage 40: 40V Type S : DO-41	AXE YW B140 S X X 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 : B140S

MAXIMUM RATINGS (TA=25°C unless otherwise noted)			
PARAMETER	SYMBOL	B140S	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	1.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30.0	A
Maximum Instantaneous Forward Voltage @ 1.0A	V _F	0.50	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I _R	0.5 10	mA
Typical Junction Capacitance(NOTE1)	C _J	70	pF
Typical Thermal Resistance	R _{θJA}	70	°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

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

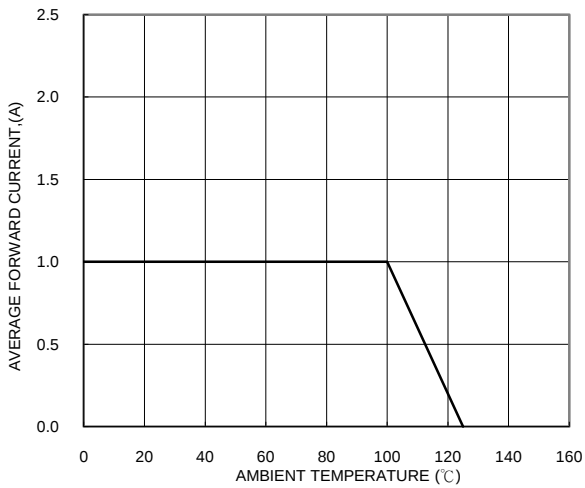


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

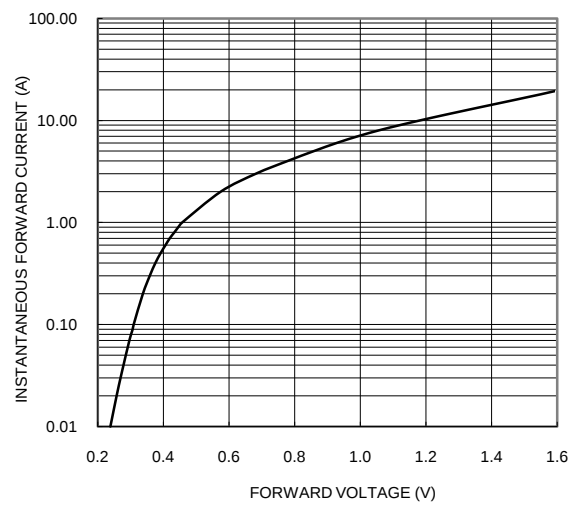


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

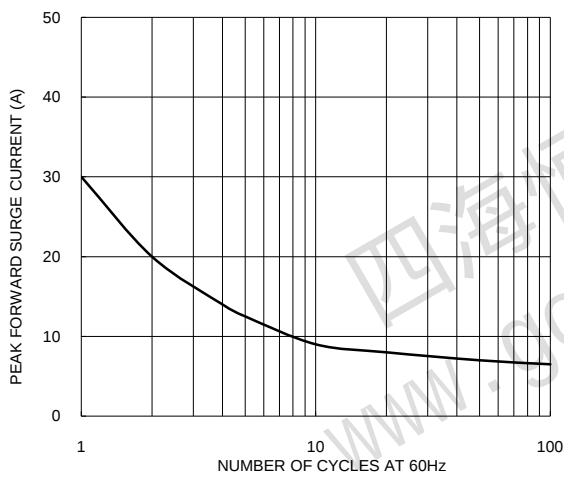


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

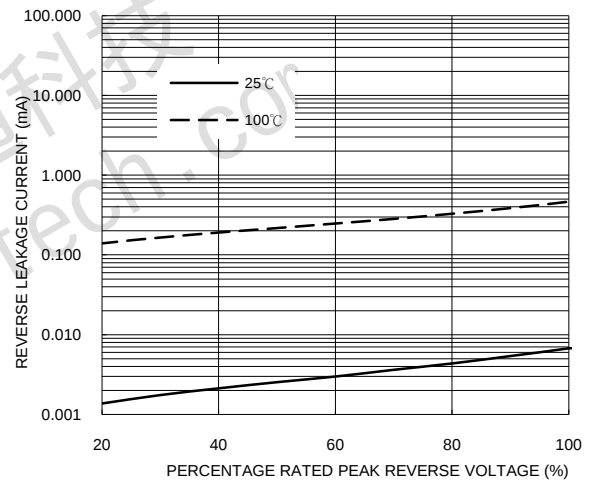


FIG. 5-TYPICAL JUNCTION CAPACITANCE

