

# AK06

**PRV : 60 Volts**  
**I<sub>o</sub> : 0.7 Amperes**

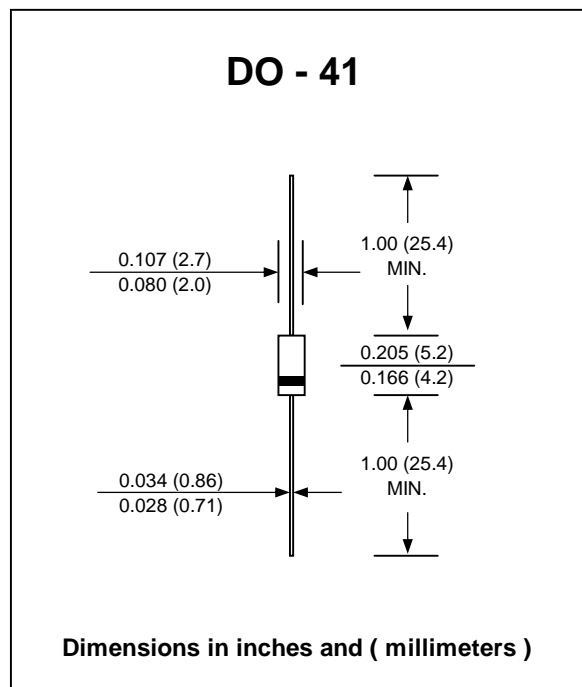
**FEATURES :**

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* High efficiency
- \* Low power loss
- \* Low forward voltage drop
- \* Low cost
- \* **Pb / RoHS Free**

**MECHANICAL DATA :**

- \* Case : DO-41 Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.339 gram

## SCHOTTKY BARRIER DIODE



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum Peak Reverse Surge Voltage	V <sub>RSM</sub>	60	V
Maximum Average Forward Current Ta = 40 °C	I <sub>F(AV)</sub>	0.7	A
Maximum Peak Forward Surge Current ( 50 Hz, Half-cycle, Sine wave, Single Shot )	I <sub>FSM</sub>	10	A
Maximum Forward Voltage at I <sub>F</sub> = 0.7A	V <sub>F</sub>	0.62	V
Maximum Reverse Current at V <sub>R</sub> = V <sub>RM</sub> Ta = 25 °C	I <sub>R</sub>	1.0	mA
Maximum Reverse Current at V <sub>R</sub> = V <sub>RM</sub> Ta = 100 °C	I <sub>R(H)</sub>	7.5	mA
Junction Temperature Range	T <sub>J</sub>	- 40 to + 125	°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 125	°C

RATING AND CHARACTERISTIC CURVES ( AK06 )

FIG.1 - FORWARD CURRENT DERATING CURVE

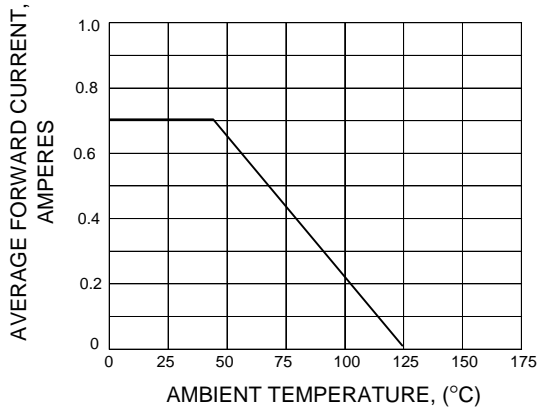


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

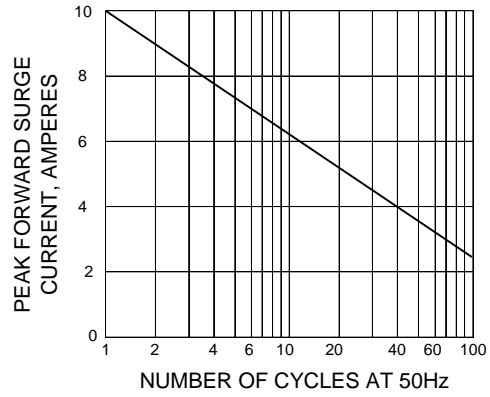


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

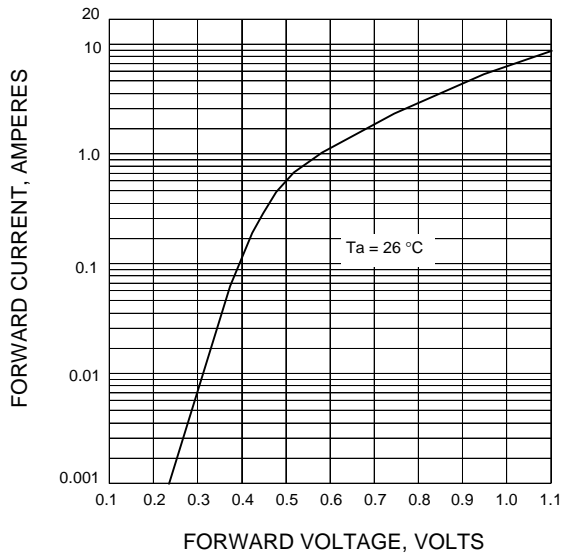


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

