

10.0 AMP SCHOTTKY BARRIER RECTIFIERS



■ Features

- Low forward voltage drop .
- Excellent high temperature stability.
- Fast switching capability.
- Lead-free parts meet environmental standards of MIL-STD- 19500 /228

■ Mechanical data

- Epoxy : UL94-V0 rated flame retardant .
- Case : Molded plastic, TO-277 .
- Lead : Solder plated , solderable per MIL-STD-750, Method 2026 .
- Polarity: Indicated by cathode band .
- Mounting Position : Any.
- Weight : Approximated 0 .093 grams .

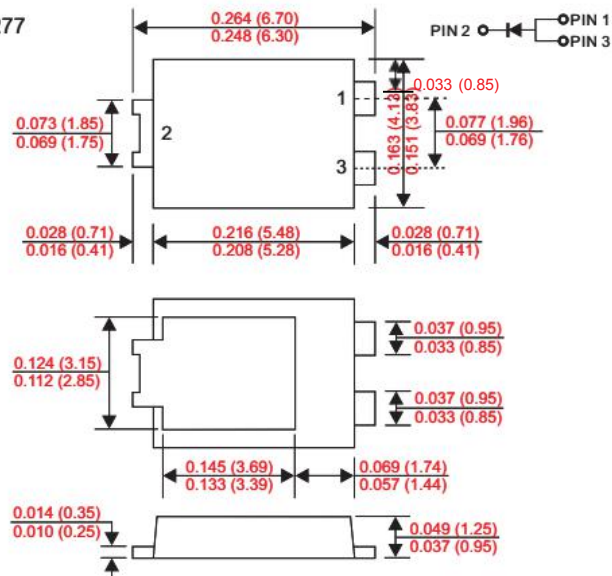
VOLTAGE RANGE

60 Volts

CURRENT

10.0 Ampere

TO-277



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	PDS760-10	UNITS
Maximum Recurrent Peak Reverse Voltage	60	V
Maximum RMS Voltage	45	V
Maximum DC Blocking Voltage	60	V
Maximum Average Forward Rectified Current See Fig. 1	10.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150	A
Maximum Instantaneous Forward Voltage at 10.0A	0.53	V
Maximum DC Reverse Current Ta=25 C	150	mA
at Rated DC Blocking Voltage Ta=125°C	50	mA
Typical Junction Capacitance (Note1)	570	pF
Typical Thermal Resistance R JA (Note 2)	60	C/W
Operating Temperature Range Tj	-55 to +150	°C
Storage Temperature Range Tstg	-55 to +150	°C

Note : 1. FR-4 PCB, 2oz.Copper.

2 . Polymide PCB, 2oz.Copper.Cathode pad dimensions 18.8mm x 14.4mm .Anode pad dimensions 5.6mm x 14.4mm .

RATING AND VCHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

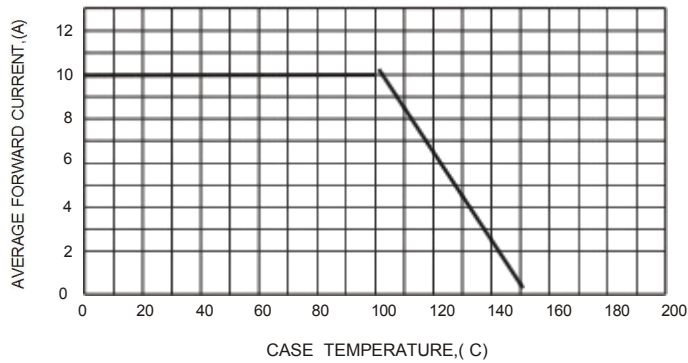


FIG.2-TYPICAL FORWARD CHARACTERISTICS

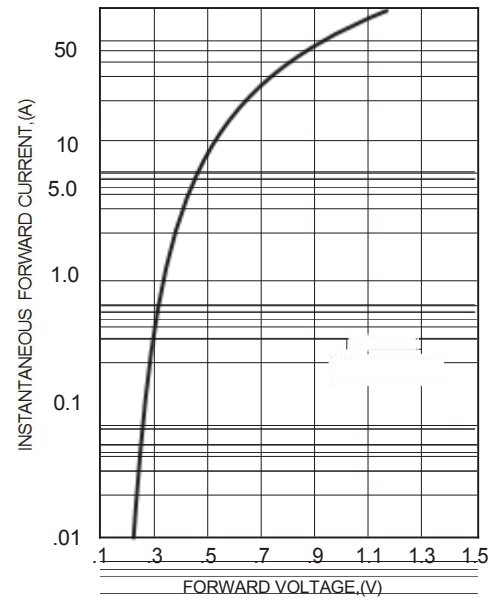


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

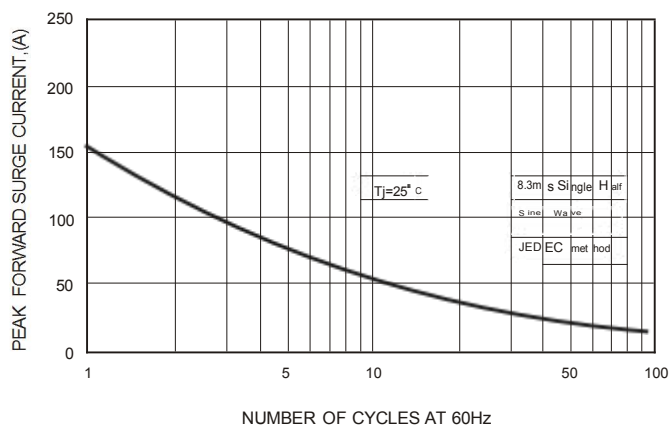


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

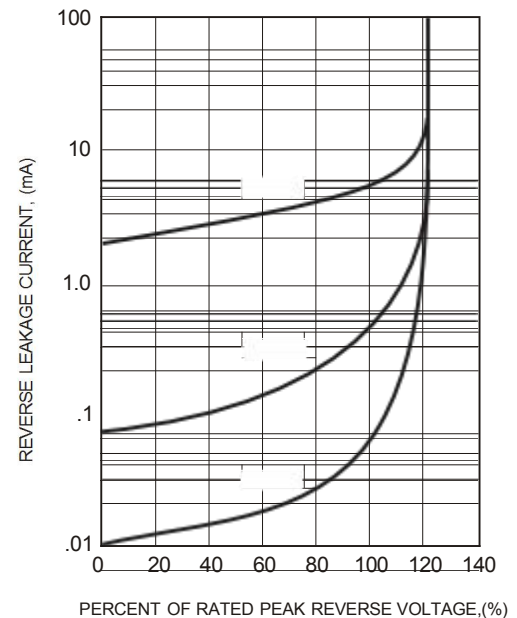


FIG.4-TYPICAL JUNCTION CAPACITANCE

