

1N5624 - 1N5627

PRV : 200 - 800 Volts
Io : 3.0 Amperes

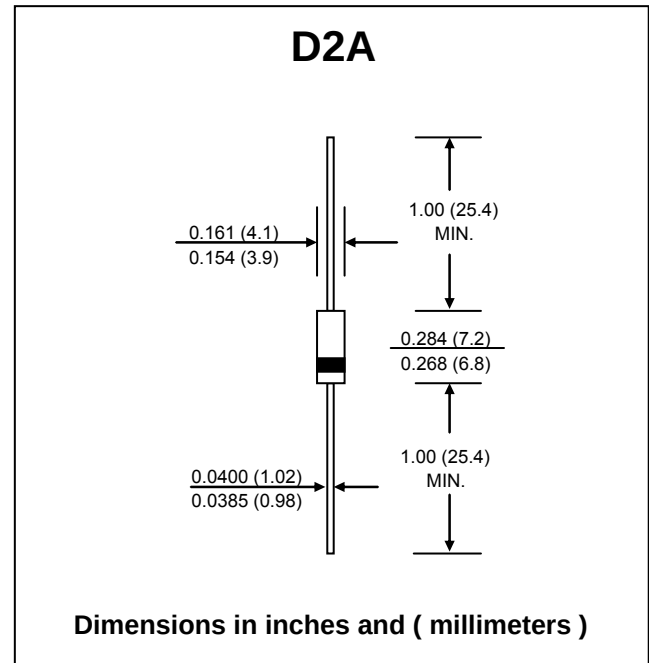
FEATURES :

- * Glass passivated cavity-free junction
- * Low forward voltage drop
- * High reliability
- * Low reverse current
- * High forward surge capability
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : D2A 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 : 0.645 gram

GLASS PASSIVATED JUNCTION SILICON RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	1N5624	1N5625	1N5626	1N5627	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	400	600	800	V
Maximum RMS Voltage	V _{RMS}	140	280	420	560	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length Ta = 70 °C	I _{F(AV)}	3.0				A
Peak Forward Surge Current, 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	125				A
Maximum Forward Voltage at I _F = 3.0 A , Ta = 25 °C at I _F = 3.0 A , Ta = 175 °C	V _F	1.00				V
		0.95				
Maximum DC Reverse Current Ta = 25 °C at rated DC Blocking Voltage Ta = 175 °C	I _R	5.0				μA
	I _{R(H)}	300		200		μA
Maximum Full Load Reverse Current, Full Cycle Average 0.375"(9.5mm) Lead Length at Ta = 70 °C	I _{R(AV)}	150		100		μA
Typical Junction Capacitance (Note1)	C _J	40				pF
Typical Thermal Resistance (Note2)	R _{θJA}	20				°C/W
	R _{θJL}	10				°C/W
Junction Temperature Range	T _J	- 65 to + 175				°C
Storage Temperature Range	T _{STG}	- 65 to + 175				°C

Notes :

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (2) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, with both leads attached between heat sinks

RATING AND CHARACTERISTIC CURVES (1N5624 ~ 1N5627)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

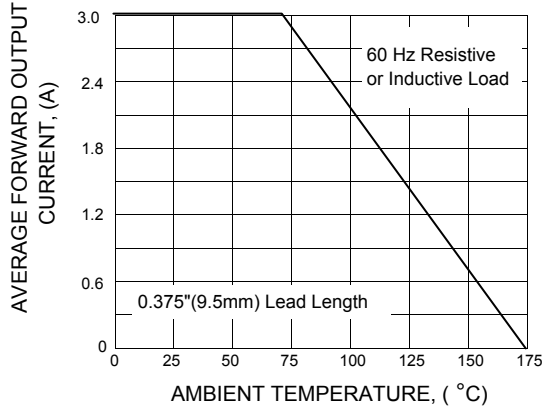


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

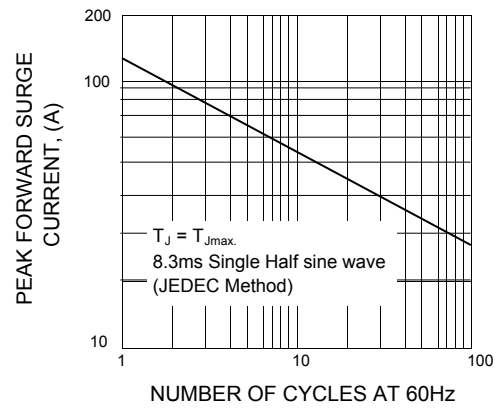


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

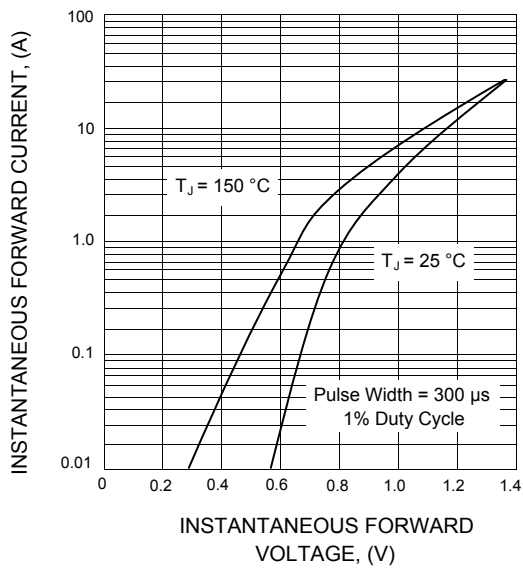


FIG 4 - TYPICAL JUNCTION CAPACITANCE

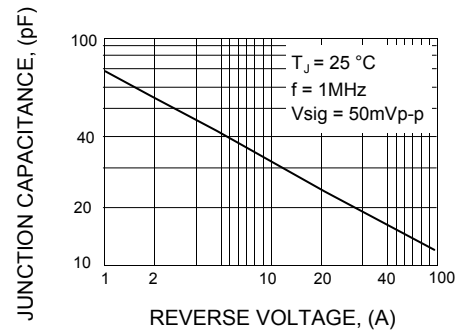


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

