

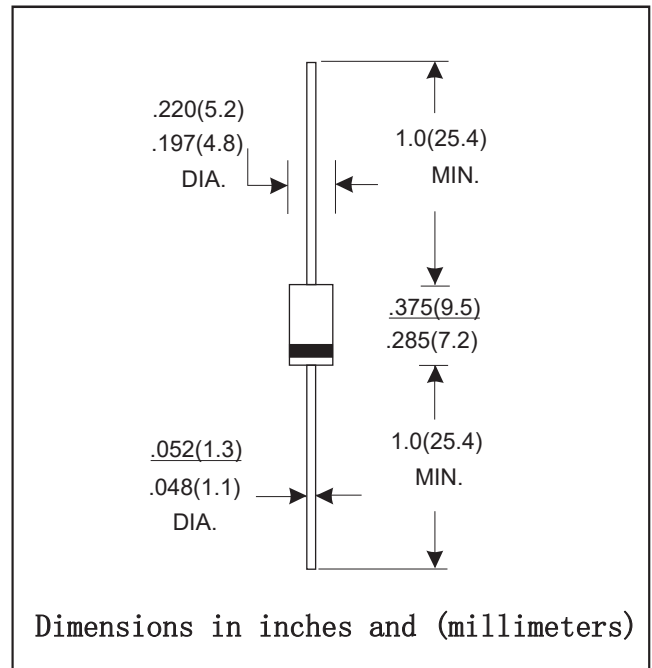
DO-27 PLASTIC SILICON RECTIFIERS

FEATURES

- Low forward voltage drop
- High current capability
- High surge current capability
- High reliability
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: DO-27 plastic molded
- Terminals: Lead solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbols	BY 251	BY 252	BY 253	BY 254	BY 255	BY 2000	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	400	600	800	1300	2000	Volts
Maximum RMS Voltage	V _{RMS}	140	280	420	560	910	0	Volts
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1300	2000	Volts
Maximum average Forward Rectified Current 0.5"(12.5mm)lead length at T _A =75°C	I(AV)	3.0						Amps
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150.0						Amps
Maximum Instantaneous Forward Voltage at 3.0 A	V _F	1.0						Volts
Maximum Reverse current at rated DC Blocking Voltage	I _R	T _A = 25 °C						μA
		T _A = 100 °C						
Maximum Full-Load-Reverse-Current I _{Full Cycle-Average} K375?E9K5mmFLead=Length @T _A 75°C		30						μA
Typical Junction Capacitance (Note 1)	C _J	40.0						pF
Typical Thermal Resistance (Note 2)	R _{θJA}	40.0						°C/W
Operating and Storage temperature Range	T _J	-65 to +150						°C
	T _{STG}							

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance from Junction to Ambient. 375" (9.5mm) lead length.

RATINGS AND CHARACTERISTIC CURVES

FIG.1: I_o - T_a Curve

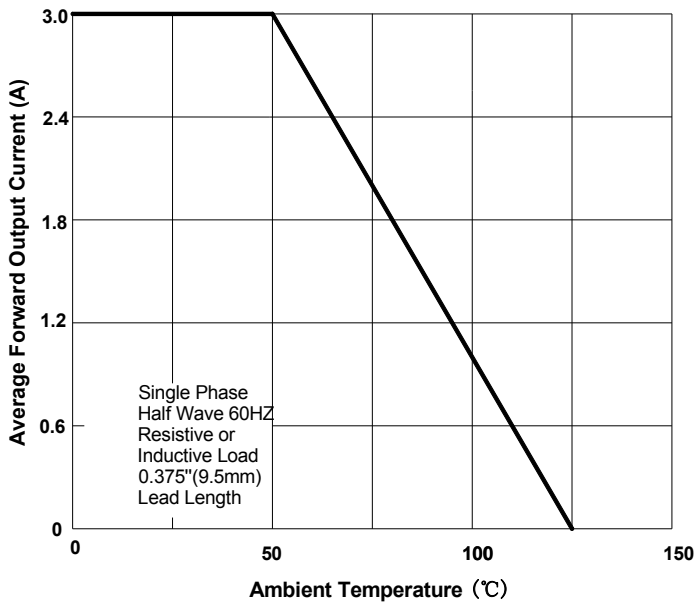


FIG.2: Surge Forward Current Capability

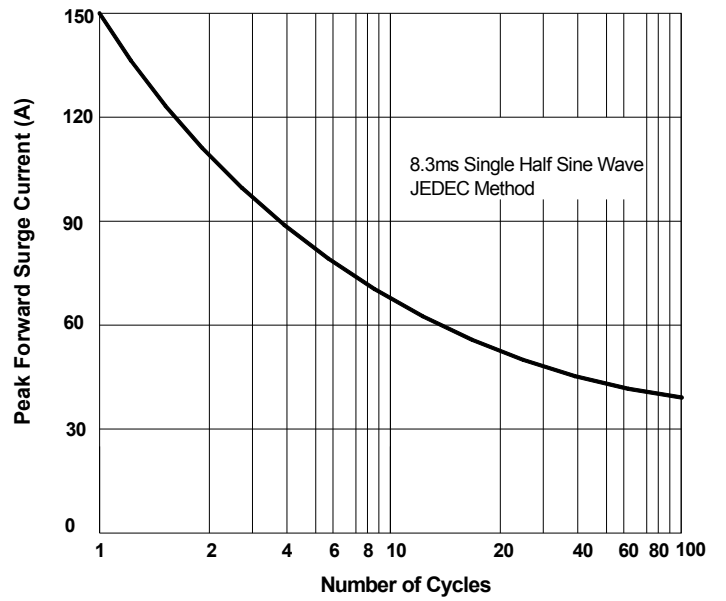


FIG.3: Forward Voltage

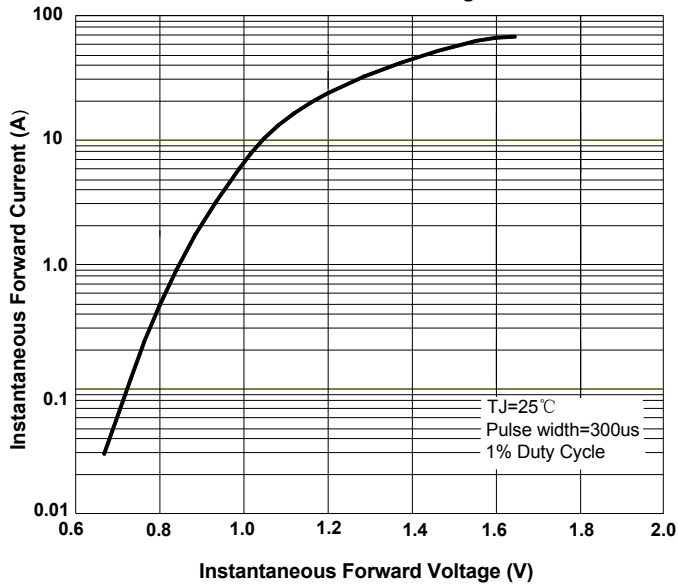


FIG.4: Typical Reverse Characteristics

