

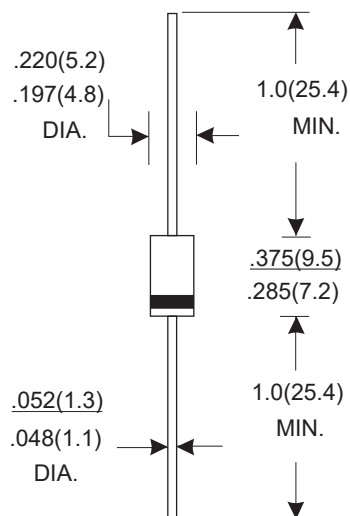
DO-27 PLASTIC SILICON RECTIFIERS

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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbols	BY 251	BY 252	BY 253	BY 254	BY 255	BY 20 00	Units	
Maximum Recurrent Peak Reverse Voltage	VRRM	200	400	600	800	1300	2000	Volts	
Maximum RMS Voltage	VRMS	140	280	420	560	910	0	Volts	
Maximum DC Blocking Voltage	VDC	200	400	600	800	1300	2000	Volts	
Maximum average Forward Rectified Current 0.5"(12.5mm)lead length at TA=75°C	l(AV)	3.0						Amps	
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method))	IFSM	150.0						Amps	
Maximum Instantaneous Forward Voltage at 3.0 A	VF	1.0						Volts	
Maximum Reverse current at rated DC Blocking Voltage	TA =25 °C	IR	5.0						μ A
	TA =100 °C		100.0						
Maximum Full=Load=Reverse=CurrentIFull Cycle=Average=K375?E9K5mmFLead=Length @TAZ75°C			30						μ A
Typical Junction Capacitance (Note 1)	CJ	40.0						pF	
Typical Thermal Resistance (Note 2)	Rθ JA	40.0						°C/W	
Operating and Storage temperature Range	TJ TSTG	-65 to+150						°C	

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

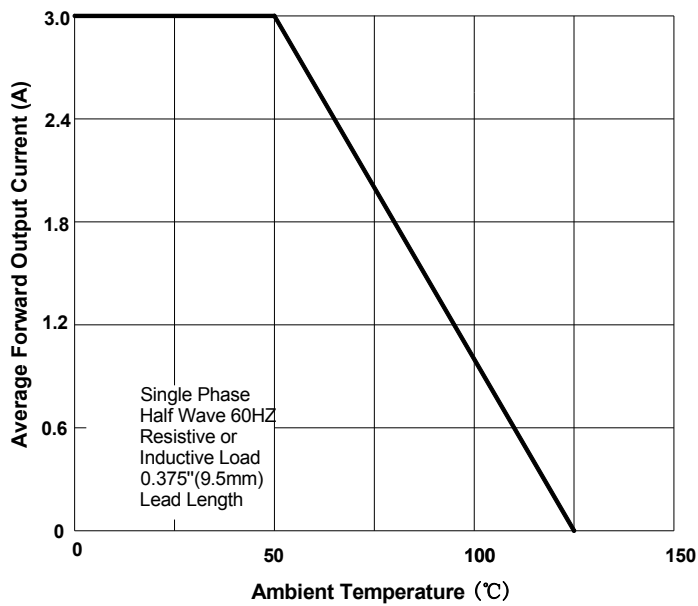


FIG.2: Surge Forward Current Capability

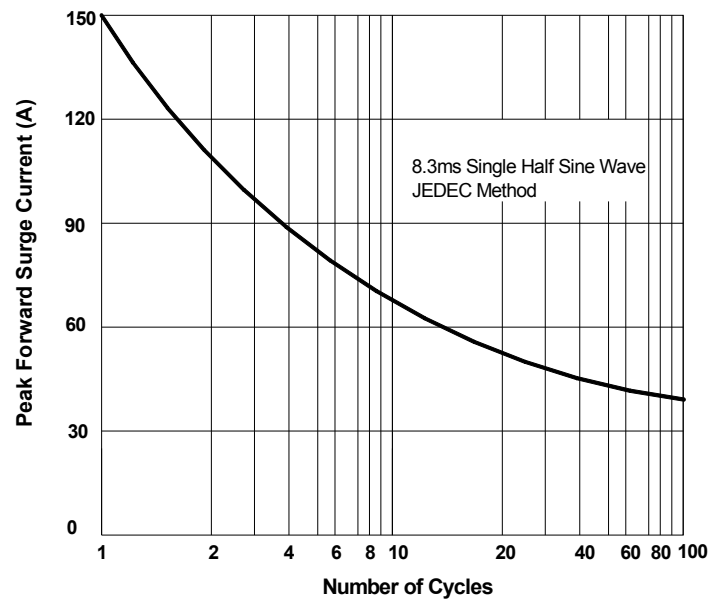


FIG.3: Forward Voltage

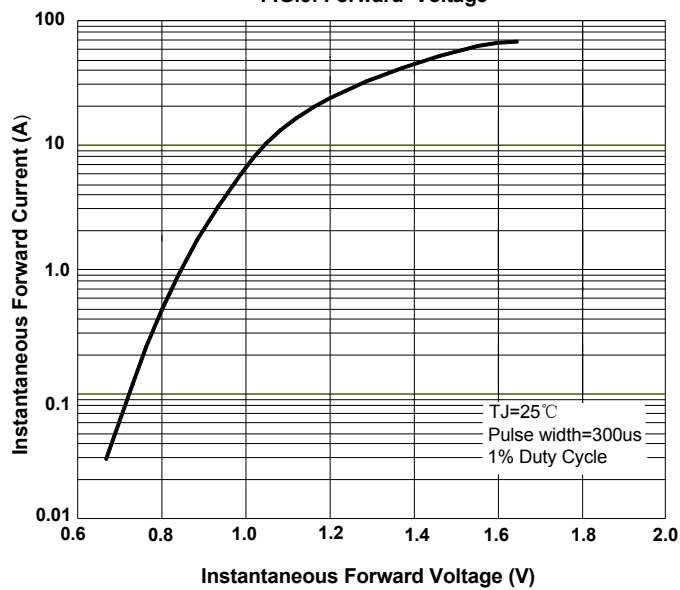


FIG.4: Typical Reverse Characteristics

