

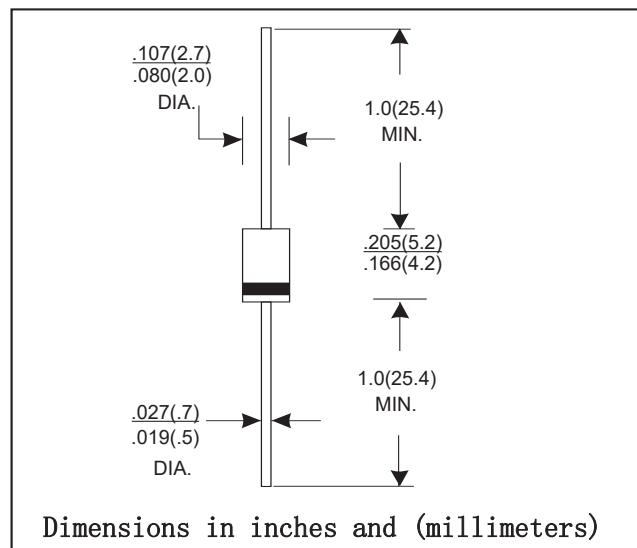
DO-41 PLASTIC SILICON RECTIFIERS

FEATURES

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability
- High voltage

MECHANICAL DATA

- Case style: DO-41 molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Paramenter		Symbol	R1200	R1500	R1800	R2000	R2500	R3000	UNITS
Maximum recurrent peak reverse voltage		V _{RRM}	1200	1500	1800	2000	2500	3000	V
Maximum RMS voltage		V _{RMS}	840	1050	1260	1400	1750	2100	V
Maximum DC blocking voltage		V _{DC}	1200	1500	1800	2000	2500	3000	V
Maximum Average Forward rectified Current at T _A =50°C		I _{F(AV)}	0.5			0.2			A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	30.0						A
Maximum Instantaneous Forward Voltage at 0.5&0.2 A		V _F	2.0			3.0		4.0	V
Maximum reverse current at rated DC blocking voltage	@T _A =25°C	I _R	5.0						μ A
	@T _A =100°C		100.0						
Maximum Full Load Reverse Current Average, Full Cycle .375”(9.5mm) lead length at T _L =55°C				30					
Typical Junction Capacitance (Note)		C _J	30						pF
Storage Temperature		T _{STG}	- 55 +150						°C
Operation Junction Temperature		T _j	- 55 + 125						°C

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_c Curve

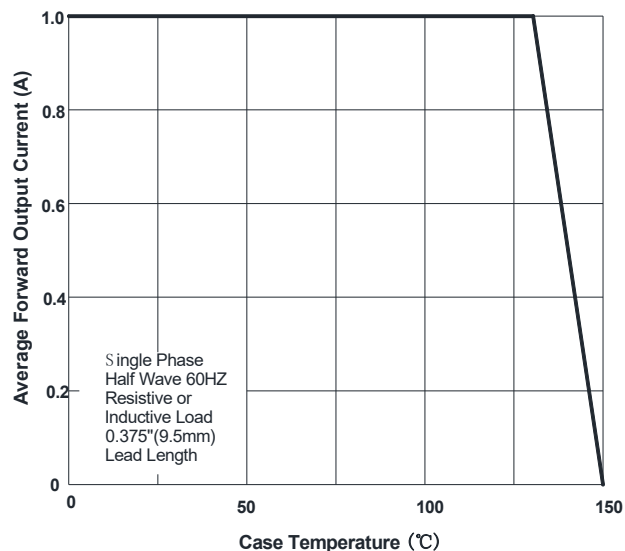


FIG.2: Forward Surge Current Capability

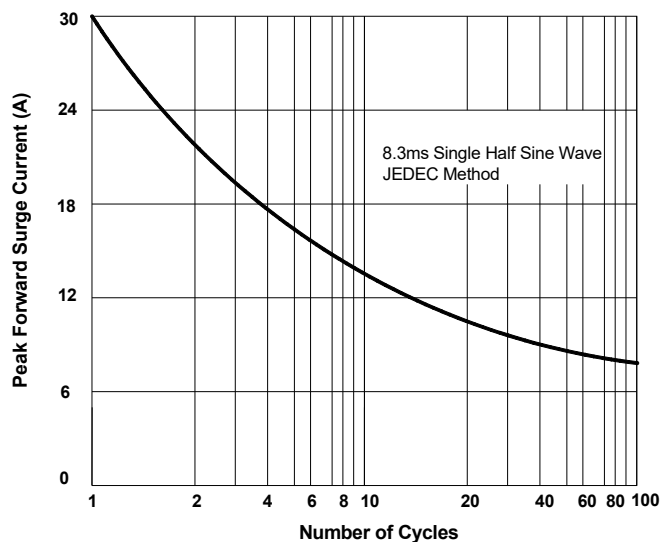


FIG.3: Forward Voltage

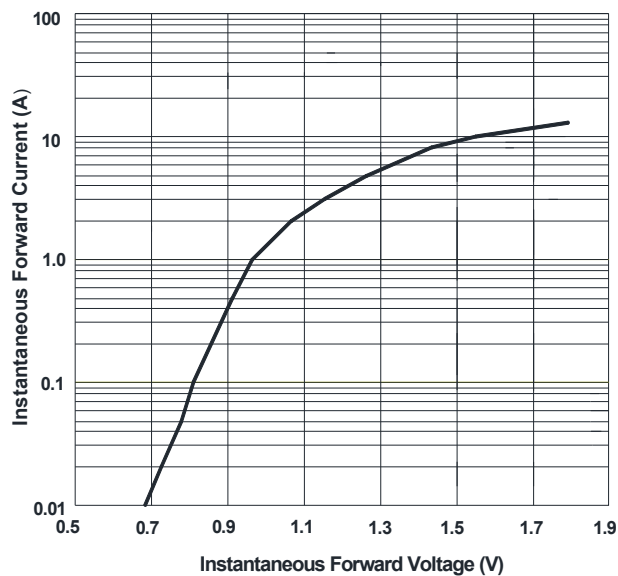


FIG.4: Typical Reverse Characteristics

