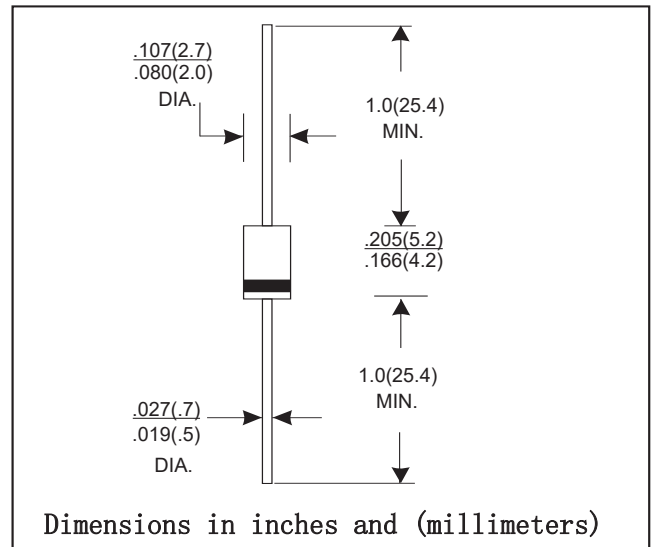


DO-41 PLASTIC SILICON RECTIFIERS
FEATURES

- 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)

Parameter	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 $T_A=50^\circ\text{C}$	$I_{F(AV)}$	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	@ $T_A=25^\circ\text{C}$	5.0						μA
	@ $T_A=100^\circ\text{C}$	100.0						
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at $T_L=55^\circ\text{C}$	I_R	30						
Typical Junction Capacitance (Note)	C_J	30						pF
Storage Temperature	T_{STG}	- 55 +150						$^\circ\text{C}$
Operation Junction Temperature	T_j	- 55 + 125						$^\circ\text{C}$

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

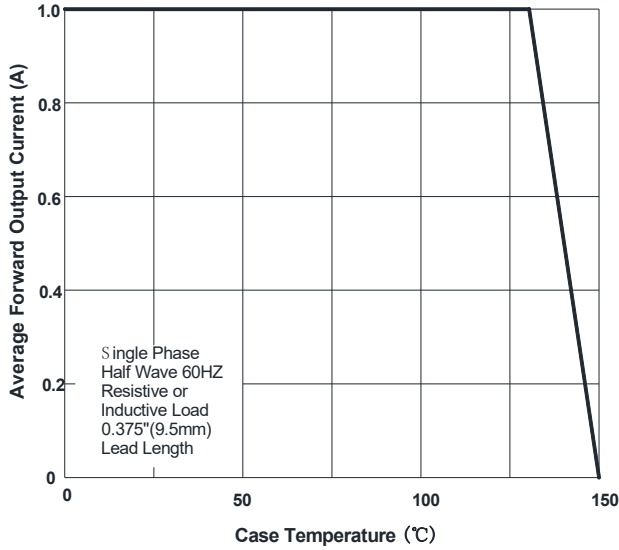


FIG.2: Forward Surge Current Capability

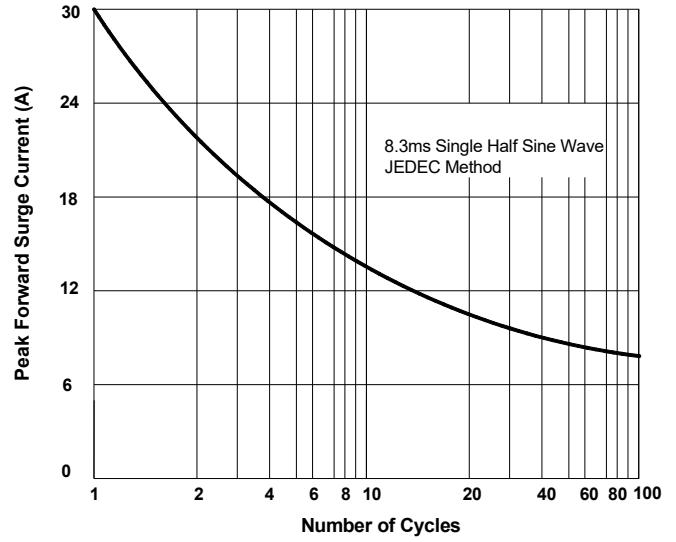


FIG.3: Forward Voltage

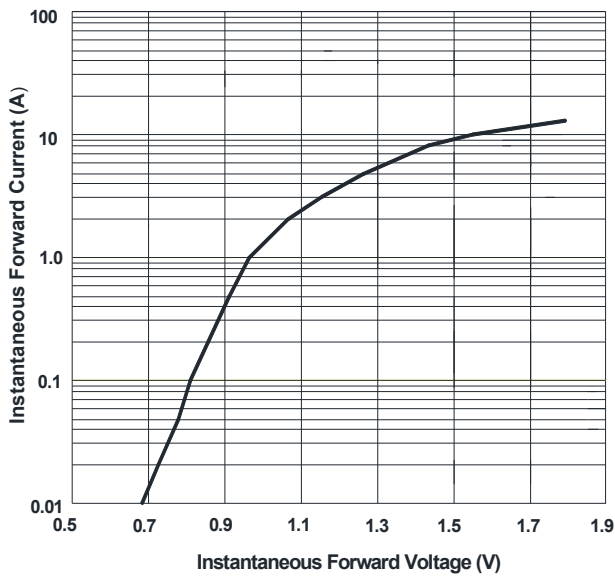


FIG.4: Typical Reverse Characteristics

