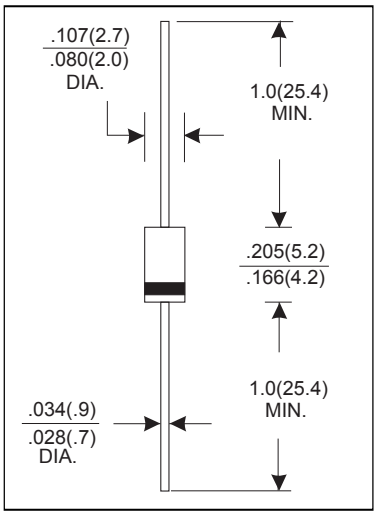
DO-41 HIGH VOLTAGE RECTIFIERS

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)Single phase,half wave,60 Hz,resistive or inductive load

For capacitive load,derate by 20%

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	I_R	5.0						μ A
	@T_A=100		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						℃
Operation Junction Temperature		T_j	- 55 + 125						℃

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-TYPICAL FORWARD CURRENT DERATING CURVE

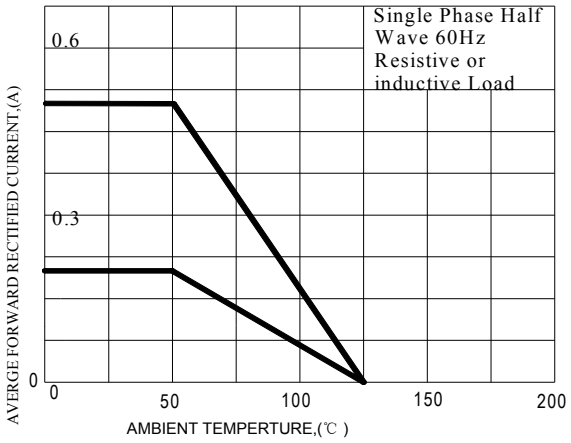


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

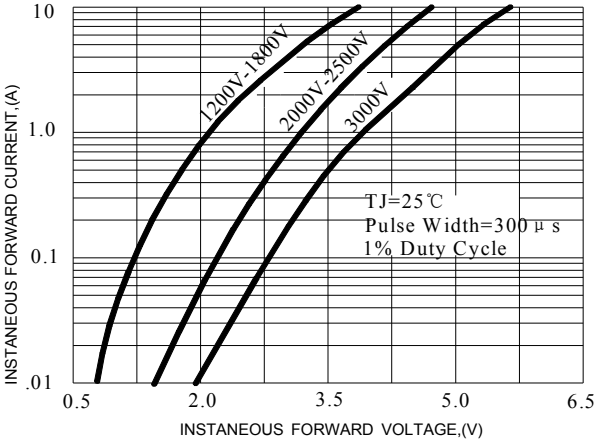


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

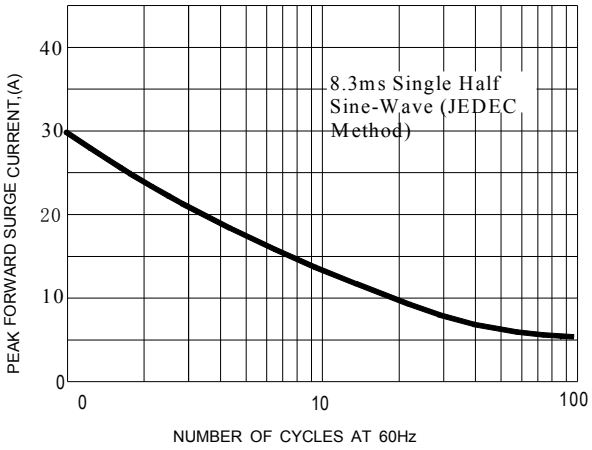


FIG.4-TYPICAL REVERSE CHARACTERISTICS