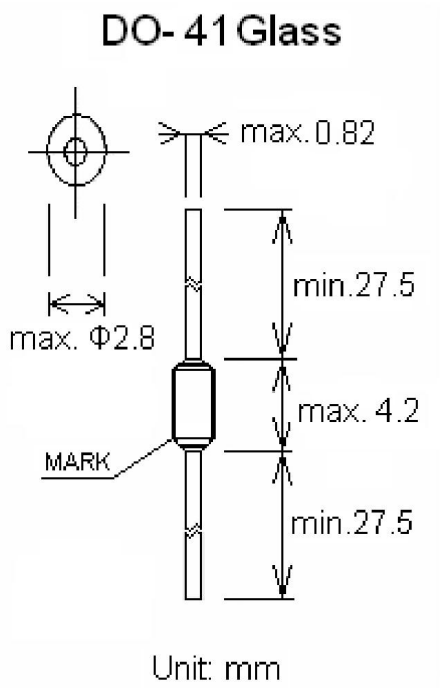

■■FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Exceeds environmental standards of MIL-S-19500/228

■■MECHANICAL DATA

- Case: Molded plastic , DO-41
- Epoxy: UL 94V-O rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202,method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.012 ounce, 0.3 gram

■■PIN ASSIGNMENT

PIN NAME	PIN NUMBER	FUNCTION
	DO41	
C	1（色环）	Cathode
A	2	Anode

■■MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25^{O}C ambient temperature unless otherwise specified.Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

CHARACTERISTIC	SYMBOL	DX1N 4001	DX1N 4002	DX1N 4003	DX1N 4004	DX1N 4005	DX1N 4006	DX1N 4007	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=110 ^{O}C	$I_{(AV)}$	1.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30							A
Maximum instantaneous forward voltage at 1.0A	V_F	1.1							V
Maximum DC reverse current TA=25^{O}C at rated DC blocking voltage TA=100^{O}C	I_R	5 500							uA
Typical junction capacitance (NOTE 1)	C_J	15							pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	50							℃/W
Operating junction and storage temperature range	T_J, T_{STG}	-50~+150							℃

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal Resistance Junction to Ambient and from junction to lead at 0.375"(9.5mm) lead length P.C.B mounted.

■■ RATINGS AND CHARACTERISTIC CURVES

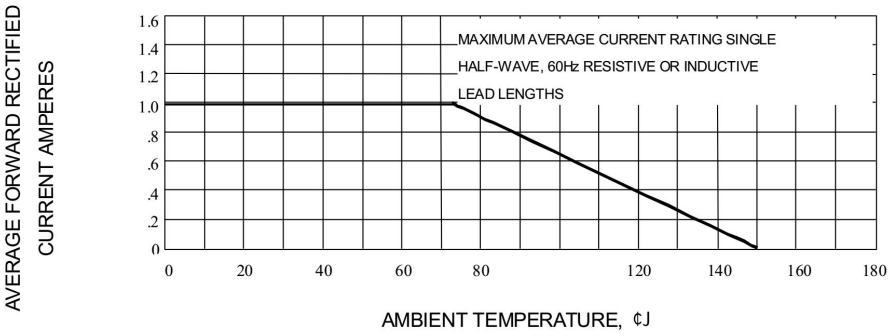

Fig. 1-TYPICAL FORWARD CURRENT DERATING CURVE

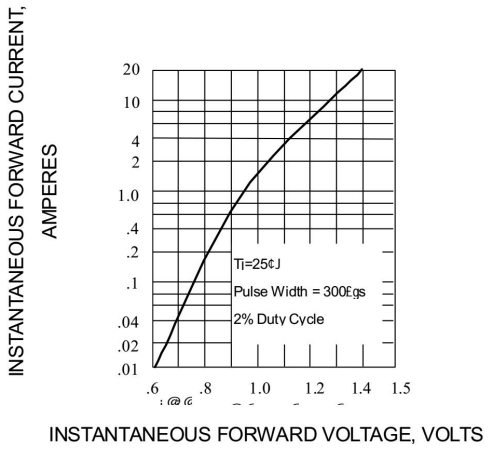

Fig. 2-TYPICAL FORWARD CHARACTERISTICS

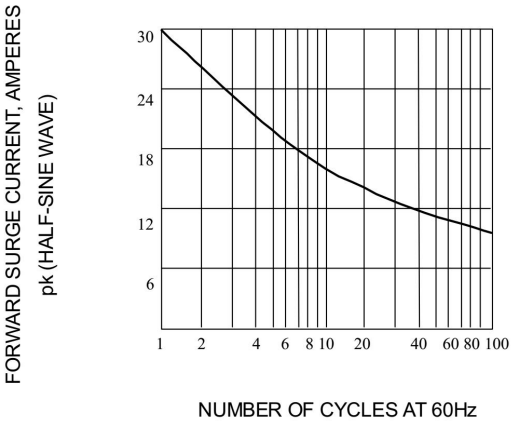

Fig. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

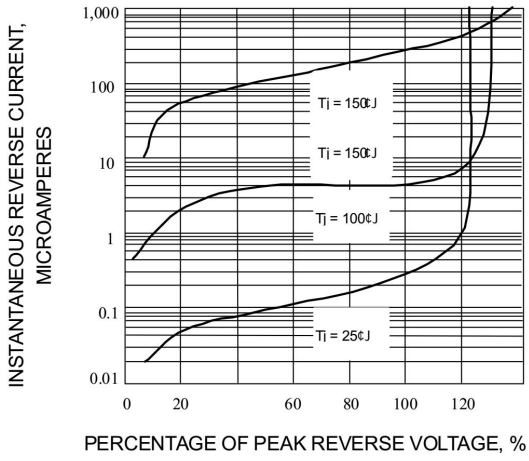

Fig. 4-TYPICAL REVERSE CHARACTERISTICS

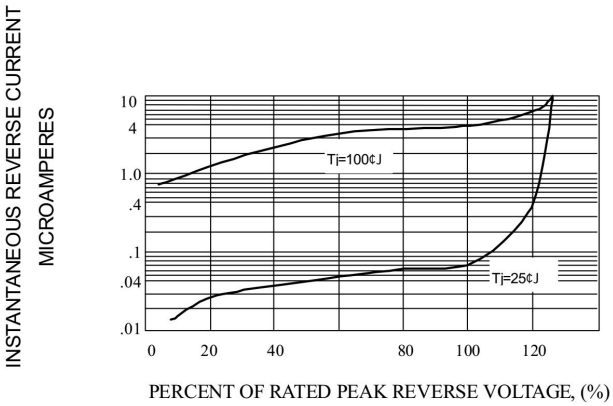

Fig. 5-TYPICAL REVERSE CHARACTERISTICS