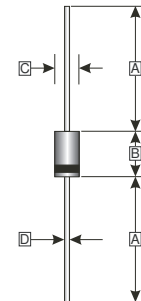


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

DO-27



FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- High speed switching

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, Methode 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 1.10 grams

REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.50
C	4.80	5.60
D	1.10	1.30

MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

PARAMETER	SYMBOL	PART NUMBERS							UNIT
		HER 501G	HER 502G	HER 503G	HER 504G	HER 505G	HER 506G	HER 507G	
Maximum Recurrent 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 9.5mm Lead length at T _A =50°C	I _F	5.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC methode)	I _{FSM}	100							A
Maximum Instantaneous Forward Voltage @ 5.0A	V _F	1.0		1.3		1.85		V	
Maximum DC Reverse Current at T _A =25°C	I _R	10							µA
Rated DC Blocking Voltage T _A =100°C		200							
Maximum Reverse Recovery Time ¹	T _{RR}	50			70			nS	
Typical Junction Capacitance ²	C _J	100							pF
Operating & Storage Temperature	T _J , T _{STG}	-55~150							°C

- Note: 1. Reverse Recovery Time test condition: I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A
 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 3. Single Phase half wave, 60Hz, resistive or inductive load.
 4. For capacitive load, derate current by 20%.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

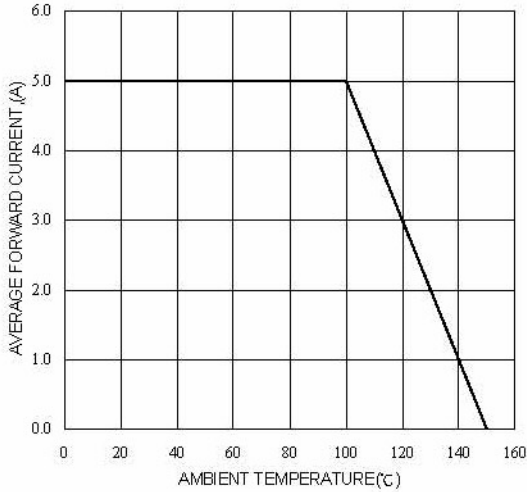


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

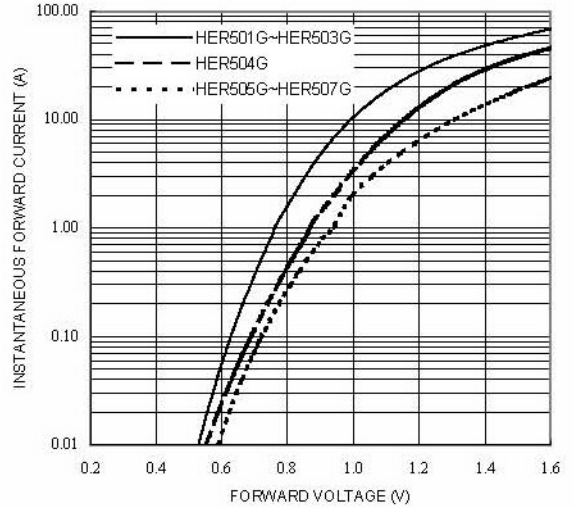


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

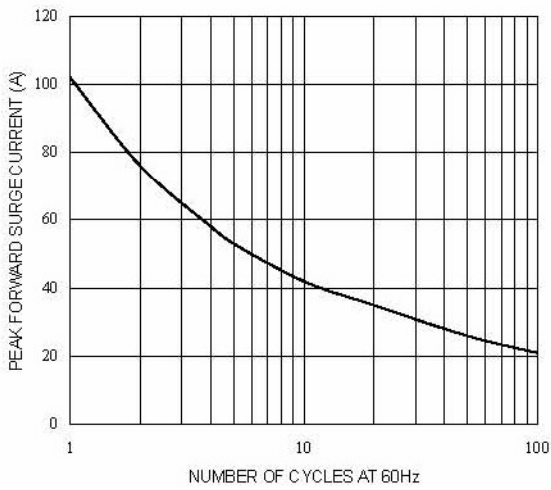


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

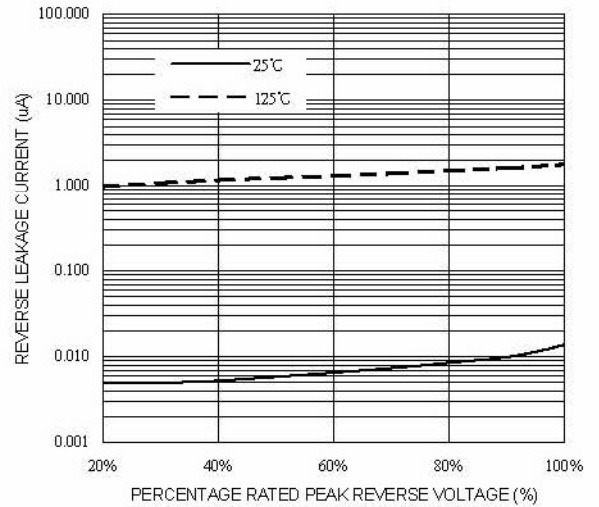


FIG. 5-TYPICAL JUNCTION CAPACITANCE

