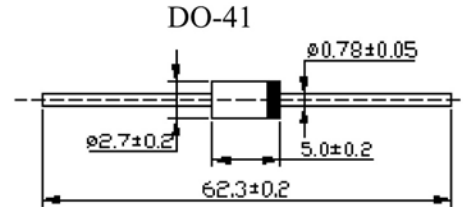


HIGH EFFICIENCY RECTIFIER

HER101 THRU HER108

1. Dimensions of outlines Unit: mm



2. Maximum Ratings

TYPE NUMBER	Symbols	Units	HER 101	HER 102	HER 103	HER 104	HER 105	HER 106	HER 107	HER 108
Maximum repetitive peak reverse voltage	V_{RRM}	V	50	100	200	300	400	600	800	1000
Maximum RMS voltage	V_{RMS}	V	35	70	140	210	280	420	560	700
Maximum DC blocking voltage	V_{DC}	V	50	100	200	300	400	600	800	1000
Maximum average forward rectified current 9.5mm lead length at $T_A=55^\circ\text{C}$	$I_{F(AV)}$	A	1.0							
Peak Forward Surge Current, 8.3ms single half-wave superimposed on rated load (JEDEC method)	I_{FSM}	A	30							
Operating junction temperature range	T_J	$^\circ\text{C}$	-65to+125							
Storage temperature range	T_{stg}	$^\circ\text{C}$	-65to+150							

3. Electrical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise specified)

TYPE NUMBER	Symbols	Units	HER 101	HER 102	HER 103	HER 104	HER 105	HER 106	HER 107	HER 108	
Maximum instantaneous forward voltage at 1.0A	V_F	V	1.0			1.3		1.7			
Maximum DC reverse current at rated DC blocking voltage	$T_a=25^\circ\text{C}$	I_{R1}	μA	5.0Max.							
	$T_a=100^\circ\text{C}$	I_{R2}	μA	100.0Max							
Maximum reverse recovery time (test conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$)	T_{rr}	nS	50					70			