

STANDARD RECOVERY DIODES STUD

YZPST-95HF80

Forward Conduction

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Repetitive peak reverse voltage	V_{RRM}			800	V	$T_j = 150^{\circ}\text{C}$
Non repetitive peak reverse voltage	V_{RSM}			960	V	$T_j = 150^{\circ}\text{C}$
Max. average forward current	$I_{F(AV)}$			95	A	Sinewave, 180° conduction, $T_c=140^{\circ}\text{C}$
Max. RMS forward current	$I_{F(RMS)}$			149	A	Nominal value
Max. peak, one-cycle forward, non-repetitive surge current	I_{FSM}			2000	A	10.0 msec (50Hz), half sinewave, $T_j = 180^{\circ}\text{C}$, $V_{RM} = 0.6V_{RRM}$
Maximum I^2t for fusing	I^2t			20	kA^2s	
Max. forward voltage drop	V_{FM}			1.40	V	$I_{TM} = 267\text{A}$; $T_c=25^{\circ}\text{C}$
Threshold voltage	V_{FO}			0.73	V	
Slope resistance	r_f			3.0	$\text{m}\Omega$	

Thermal and Mechanical Specifications

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Operating temperature	T_j	-55	+180		$^{\circ}\text{C}$	
Storage temperature	T_{stg}	-55	+180		$^{\circ}\text{C}$	
Reverse recovery charge	Q_{rr}			-	μC	
Thermal resistance - junction to case	$R_{\theta(j-c)}$		-	0.27	K/W	
Thermal resistance - case to heatsink	$R_{\theta(c-s)}$		-	0.25	K/W	
Mounting force	P			3.4	Nm	$\pm 10\%$
Weight	W	-	-	16	g	about
Case style				DO-5		See Outline Table

CASE OUTLINE AND DIMENSIONS.

Outlines Table

