

YZPST[®] Silicon Super Fast Recovery Diode

TYPE: YZPST-ESB150NH40SN

Features

- High Surge Capability
- Types from 50 V to 600 V V_{RRM}
- Not ESD Sensitive

Symbol	Condition	Ratings	Unit
$I_{F(AV)M}$	$T_C=100^{\circ}C$; 180° sine	150	A
I_{FRMS}	maximum value for continuous operation		A
I_{FSM}	$T_j=25^{\circ}C$; $t = 8.3$ ms (50 Hz); sine	2100	A
I^2t	$T_j=25^{\circ}C$; $t = 8.3$ ms (50 Hz); sine	1830	kA^2S
V_{iso}	A.C. 1minute/1second	-	V
T_j		-40 ~ + 175	$^{\circ}C$
T_{stg}		-40 ~ + 150	$^{\circ}C$
M	mounting torque; $\pm 15\%$	4	Nm
	terminal torque; $\pm 15\%$	3	Nm
W	approx.	95	g
I_{RRM}	At V_{RRM} , Single phase, half wave, $T_j=100^{\circ}C$	1	mA
V_{FM}	On-State Current 150A, $T_j=25^{\circ}C$	1.40	V
V_{F0}	$T_j=150^{\circ}C$	-	V
r_F	$T_j=150^{\circ}C$	-	m Ω
t_{rr}	$T_j=25^{\circ}C$; $I_F = 150A$; $-di_F/dt = 300A/\mu s$; $V_R = 200V$;	120	ns
Q_{rr}	$T_j=150^{\circ}C$; $I_F = 50A$; $-di_F/dt = 100A/\mu s$; $V_R = 100V$	-	us
I_{RM}		-	A
$R_{th(j-c)}$	Per Module	0.12	$^{\circ}C/W$
$R_{th(c-h)}$	Per Module	-	$^{\circ}C/W$

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Outline Drawing

