

Adopt FRED chip  
 Low forward Voltage drop  
 Fast reverse recovery time  
 High frequency operation  
 High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance  
 Guard ring for enhanced ruggedness and long term reliability

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Package : TO-247AB

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

Leads : Tin plated leads, solderable per J-STD-002 and JESD22-B102

Surge Current : @60Hz half sine-wave, 1 cycle, Tj=25

Surge Current non-repet

	FSM	A	120
Current Squared Time @1ms t 8.3ms Tj=25	I <sup>2</sup> t	A <sup>2</sup> s	60
Single Pulse Avalanche Energy @ Tp=40uS, Tj=25 ,L=15mH	EAS	mJ	86

Typical Junction capacitance @4V,1MHz	Cj	pF	50

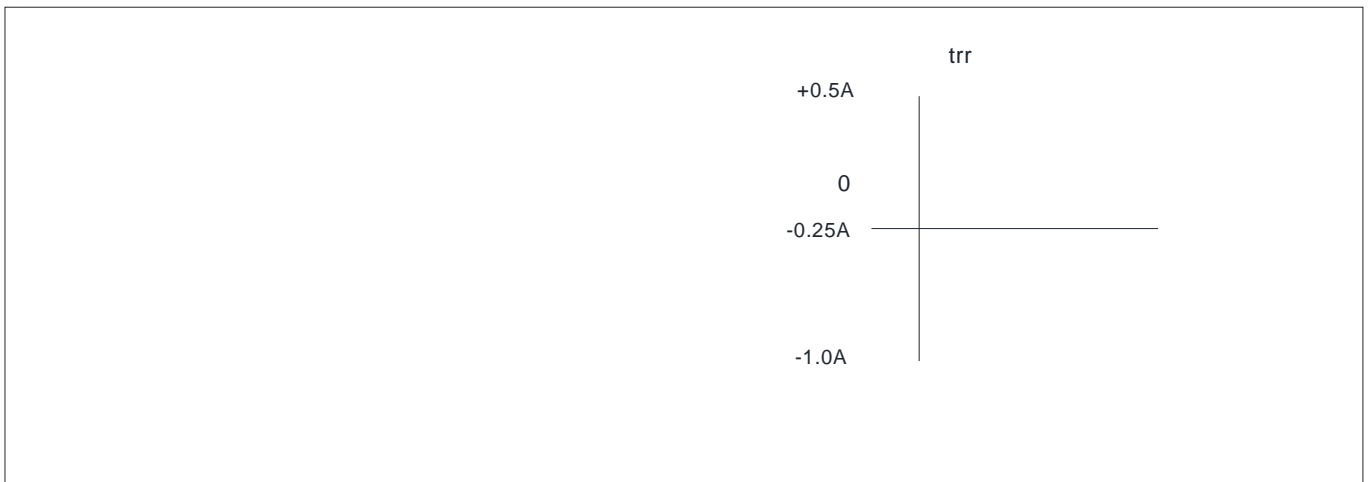
Instantaneous forward voltage drop per diode	$V_{FM}$	V	$I_{FM}=10.0A @ T_j=25$	-	1.15	1.30
DC reverse current at rated DC blocking voltage per diode	$I_{RRM1}$		$V_{RM}=V_{RRM}$ $T_j=25$	-	-	5
			$T_j=150$ $I_F$			

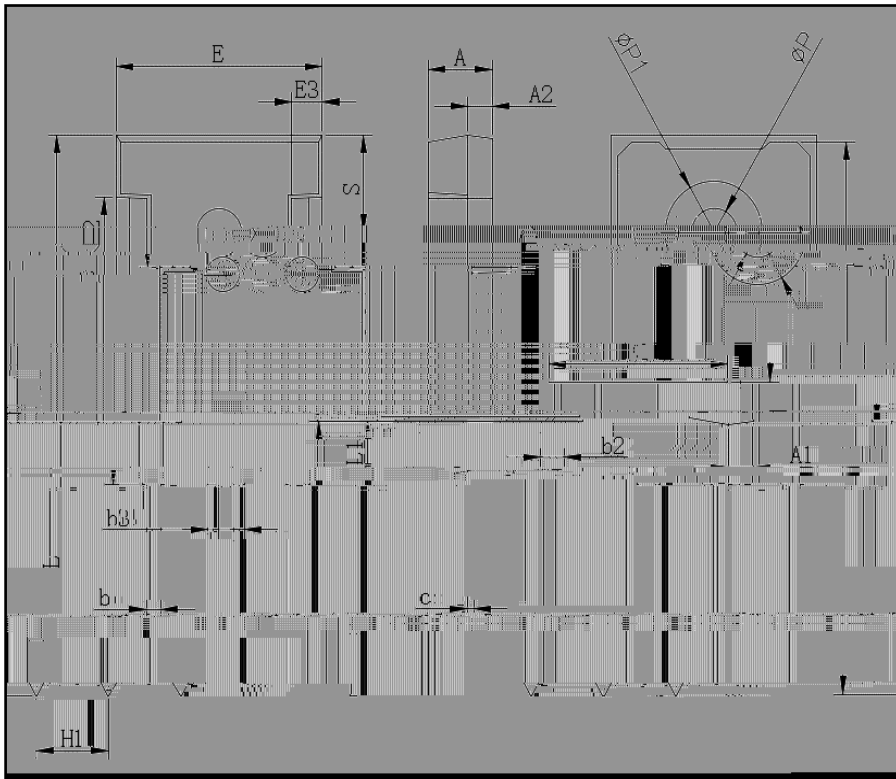
Reverse Recovery Time

$T_{rr}$  ns



(Typical)





Dim	Min	Max
A	4.80	5.20
A1	2.21	2.61
A2	1.85	2.15
b	1.0	1.4
b2	1.91	2.21
C	0.5	0.7
D	20.70	21.30
D1	16.25	16.85
E	15.50	16.10
E1	13.0	13.6
E2	4.80	5.20
E3	2.30	2.70
L	19.62	20.22
L1	-	4.30
P	3.40	3.80
P1	-	7.30
S	6.15TYP	
H1	5.44TYP	
b3	2.80	3.20

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