Transys Electronics LIMITED

1N5832(R) THRU 1N5834(R)

SCHOTTKY DIODES STUD TYPE 40 A

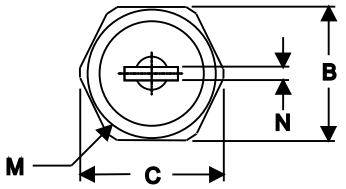
Features

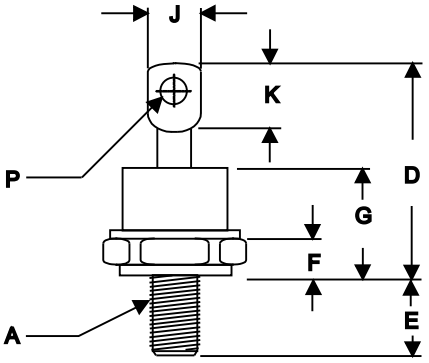
High Surge Capability

Types up to 40V V_{RRM}

40Amp Rectifier
20-40 Volts

DO-5





Maximum Ratings

Operating Temperature: -65 ℃ to +150 ℃

Storage Temperature: -65 ℃ to +175 ℃

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5832(R)	20V	14V	20V
1N5833(R)	30V	21V	30V
1N5834(R)	40V	28V	40V

Notes:
1.Standard Polarity:Stud is Cathode
2.Reverse Polarity:Stud is Anode

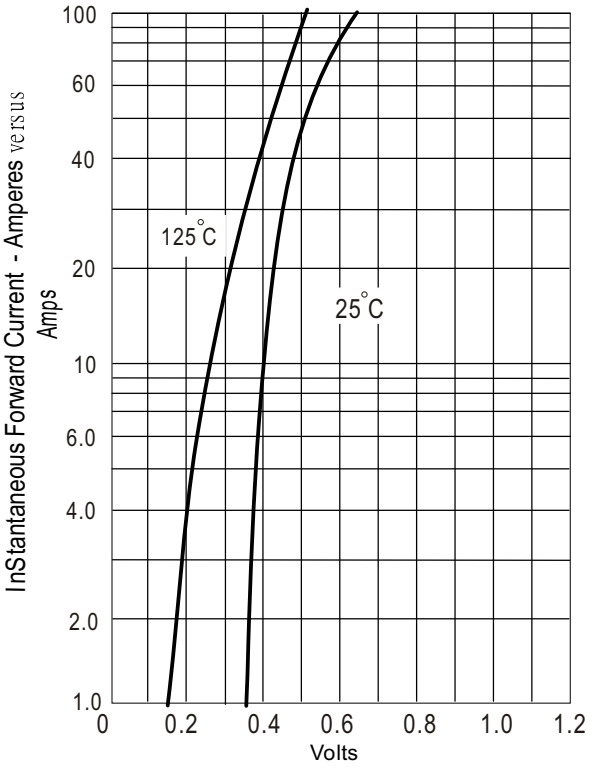
Electrical Characteristics @ 25 ℃ Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	40A	T_C =100 ℃
Peak Forward Surge Current	I_{FSM}	800A	8.3ms , half sine
Maximum Instantaneous Forward Voltage NOTE (1)	V_F	0.52V 0.55V 0.59V	(1N5832) (1N5833) (1N5834) I_{FM} =40 A ; T_j = 25 ℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage NOTE (1)	I_R	20 mA 250 mA	T_J = 25 ℃ T_J = 125 ℃
Maximum Thermal Resistance,Junction To Case	$R_{\theta jC}$	1.5℃/W	

DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	1/4 -28 Threads		Standard	Polarity	
B	.669	.687	17.19	17.44	
C	-----	.794	-----	20.16	
D	-----	1.020	-----	25.91	
E	.422	.453	10.72	11.50	
F	.115	.200	2.93	5.08	
G	-----	.460	-----	11.68	
H	-----	-----	-----	-----	
J	-----	.375	-----	9.52	
K	.156	-----	3.96	-----	
M	-----	.667	-----	16.94	
N	-----	.080	-----	2.03	
P	.140	.175	3.56	4.45	

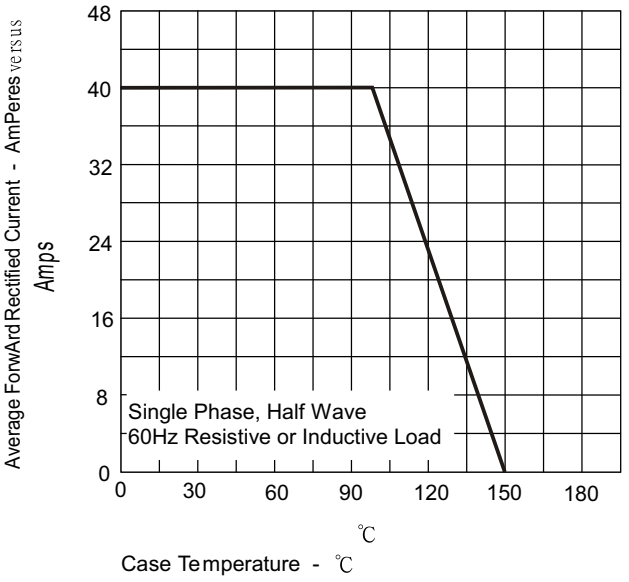
NOTE :
(1) Pulse Test: Pulse Width 300 usec, Duty Cycle < 2%

Figure 1
Typical Forward Characteristics



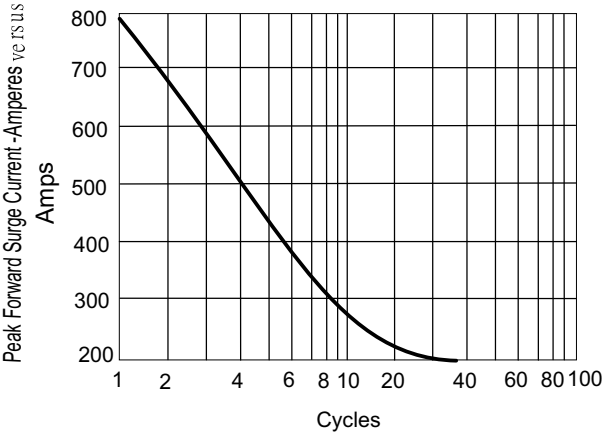
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



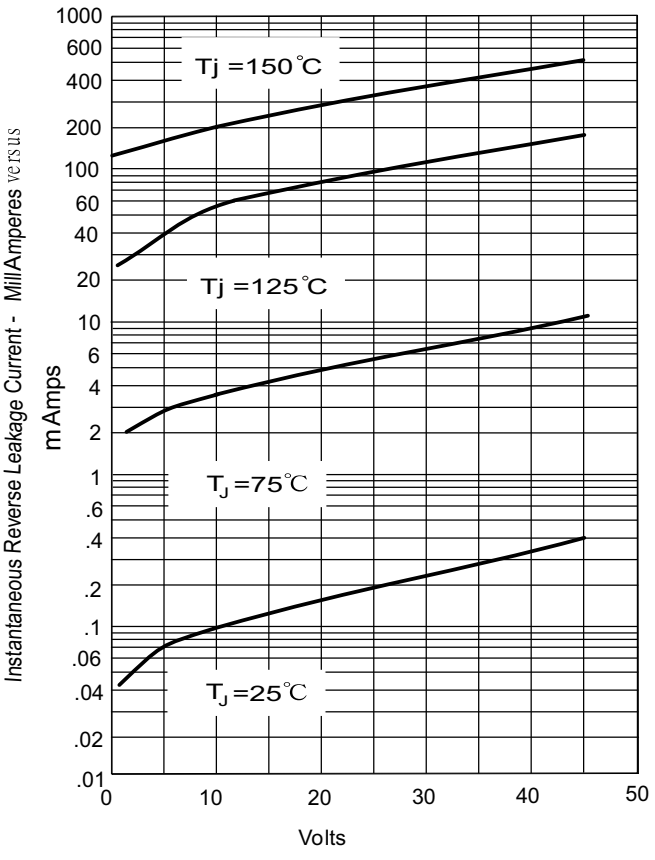
Case Temperature - °C

Figure 3
Peak Forward Surge Current



Number Of Cycles At 60Hz - Cycles

Figure 4
Typical Reverse Characteristics



Reverse Voltage - Volts