

Schottky Diodes

Features

- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Sol[^] n h UL 94 V-0 flammability rating, RoHS-compliant

- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked

■ **Maximum Ratings** (T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MBR3045CT
Device marking code			MBR3045CT
Repetitive Peak Reverse Voltage	V_{RRM}	V	45
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25	I_O	A	30
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25	I_{FSM}	A	250
Current Squared Time @1ms≤t≤8.3ms Tj=25	I^2t	A ² s	260
Storage Temperature	T_{stg}		-55 ~ +150
Junction Temperature	Tj		-55 ~ +150

■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR3045CT
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Maximum instantaneous forward	RRM2RRM4RRM6RRM8RRM10RRM12RRM14RRM16RRM18RRM20RRM22RRM24RRM26RRM28RRM30RRM32RRM34RRM36RRM38RRM40RRM42RRM44RRM46RRM48RRM50RRM52RRM54RRM56RRM58RRM60RRM62RRM64RRM66RRM68RRM70RRM72RRM74RRM76RRM78RRM80RRM82RRM84RRM86RRM88RRM90RRM92RRM94RRM96RRM98RRM100RRM102RRM104RRM106RRM108RRM110RRM112RRM114RRM116RRM118RRM120RRM122RRM124RRM126RRM128RRM130RRM132RRM134RRM136RRM138RRM140RRM142RRM144RRM146RRM148RRM150RRM152RRM154RRM156RRM158RRM160RRM162RRM164RRM166RRM168RRM170RRM172RRM174RRM176RRM178RRM180RRM182RRM184RRM186RRM188RRM190RRM192RRM194RRM196RRM198RRM200RRM202RRM204RRM206RRM208RRM210RRM212RRM214RRM216RRM218RRM220RRM222RRM224RRM226RRM228RRM230RRM232RRM234RRM236RRM238RRM240RRM242RRM244RRM246RRM248RRM250RRM252RRM254RRM256RRM258RRM260RRM262RRM264RRM266RRM268RRM270RRM272RRM274RRM276RRM278RRM280RRM282RRM284RRM286RRM288RRM290RRM292RRM294RRM296RRM298RRM300RRM302RRM304RRM306RRM308RRM310RRM312RRM314RRM316RRM318RRM320RRM322RRM324RRM326RRM328RRM330RRM332RRM334RRM336RRM338RRM340RRM342RRM344RRM346RRM348RRM350RRM352RRM354RRM356RRM358RRM360RRM362RRM364RRM366RRM368RRM370RRM372RRM374RRM376RRM378RRM380RRM382RRM384RRM386RRM388RRM390RRM392RRM394RRM396RRM398RRM400RRM402RRM404RRM406RRM408RRM410RRM412RRM414RRM416RRM418RRM420RRM422RRM424RRM426RRM428RRM430RRM432RRM434RRM436RRM438RRM440RRM442RRM444RRM446RRM448RRM450RRM452RRM454RRM456RRM458RRM460RRM462RRM464RRM466RRM468RRM470RRM472RRM474RRM476RRM478RRM480RRM482RRM484RRM486RRM488RRM490RRM492RRM494RRM496RRM498RRM500RRM502RRM504RRM506RRM508RRM510RRM512RRM514RRM516RRM518RRM520RRM522RRM524RRM526RRM528RRM530RRM532RRM534RRM536RRM538RRM540RRM542RRM544RRM546RRM548RRM550RRM552RRM554RRM556RRM558RRM560RRM562RRM564RRM566RRM568RRM570RRM572RRM574RRM576RRM578RRM580RRM582RRM584RRM586RRM588RRM590RRM592RRM594RRM596RRM598RRM600RRM602RRM604RRM606RRM608RRM610RRM612RRM614RRM616RRM618RRM620RRM622RRM624RRM626RRM628RRM630RRM632RRM634RRM636RRM638RRM640RRM642RRM644RRM646RRM648RRM650RRM652RRM654RRM656RRM658RRM660RRM662RRM664RRM666RRM668RRM670RRM672RRM674RRM676RRM678RRM680RRM682RRM684RRM686RRM688RRM690RRM692RRM694RRM696RRM698RRM700RRM702RRM704RRM706RRM708RRM710RRM712RRM714RRM716RRM718RRM720RRM722RRM724RRM726RRM728RRM730RRM732RRM734RRM736RRM738RRM740RRM742RRM744RRM746RRM748RRM750RRM752RRM754RRM756RRM758RRM760RRM762RRM764RRM766RRM768RRM770RRM772RRM774RRM776RRM778RRM780RRM782RRM784RRM786RRM788RRM790RRM792RRM794RRM796RRM798RRM800RRM802RRM804RRM806RRM808RRM810RRM812RRM814RRM816RRM818RRM820RRM822RRM824RRM826RRM828RRM830RRM832RRM834RRM836RRM838RRM840RRM842RRM844RRM846RRM848RRM850RRM852RRM854RRM856RRM858RRM860RRM862RRM864RRM866RRM868RRM870RRM872RRM874RRM876RRM878RRM880RRM882RRM884RRM886RRM888RRM890RRM892RRM894RRM896RRM898RRM900RRM902RRM904RRM906RRM908RRM910RRM912RRM914RRM916RRM918RRM920RRM922RRM924RRM926RRM928RRM930RRM932RRM934RRM936RRM938RRM940RRM942RRM944RRM946RRM948RRM950RRM952RRM954RRM956RRM958RRM960RRM962RRM964RRM966RRM968RRM970RRM972RRM974RRM976RRM978RRM980RRM982RRM984RRM986RRM988RRM990RRM992RRM994RRM996RRM998RRM1000RRM1002RRM1004RRM1006RRM1008RRM1010RRM1012RRM1014RRM1016RRM1018RRM1020RRM1022RRM1024RRM1026RRM1028RRM1030RRM1032RRM1034RRM1036RRM1038RRM1040RRM1042RRM1044RRM1046RRM1048RRM1050RRM1052RRM1054RRM1056RRM1058RRM1060RRM1062RRM1064RRM1066RRM1068RRM1070RRM1072RRM1074RRM1076RRM1078RRM1080RRM1082RRM1084RRM1086RRM1088RRM1090RRM1092RRM1094RRM1096RRM1098RRM1100RRM1102RRM1104RRM1106RRM1108RRM1110RRM1112RRM1114RRM1116RRM1118RRM1120RRM1122RRM1124RRM1126RRM1128RRM1130RRM1132RRM1134RRM1136RRM1138RRM1140RRM1142RRM1144RRM1146RRM1148RRM1150RRM1152RRM1154RRM1156RRM1158RRM1160RRM1162RRM1164RRM1166RRM1168RRM1170RRM1172RRM1174RRM1176RRM1178RRM1180RRM1182RRM1184RRM1186RRM1188RRM1190RRM1192RRM1194RRM1196RRM1198RRM1200RRM1202RRM1204RRM1206RRM1208RRM1210RRM1212RRM1214RRM1216RRM1218RRM1220RRM1222RRM1224RRM1226RRM1228RRM1230RRM1232RRM1234RRM1236RRM1238RRM1240RRM1242RRM1244RRM1246RRM1248RRM1250RRM1252RRM1254RRM1256RRM1258RRM1260RRM1262RRM1264RRM1266RRM1268RRM1270RRM1272RRM1274RRM1276RRM1278RRM1280RRM1282RRM1284RRM1286RRM1288RRM1290RRM1292RRM1294RRM1296RRM1298RRM1300RRM1302RRM1304RRM1306RRM1308RRM1310RRM1312RRM1314RRM1316RRM1318RRM1320RRM1322RRM1324RRM1326RRM1328RRM1330RRM1332RRM1334RRM1336RRM1338RRM1340RRM1342RRM1344RRM1346RRM1348RRM1350RRM1352RRM1354RRM1356RRM1358RRM1360RRM1362RRM1364RRM1366RRM1368RRM1370RRM1372RRM1374RRM1376RRM1378RRM1380RRM1382RRM1384RRM1386RRM1388RRM1390RRM1392RRM1394RRM1396RRM1398RRM1400RRM1402RRM1404RRM1406RRM1408RRM1410RRM1412RRM1414RRM1416RRM1418RRM1420RRM1422RRM1424RRM1426RRM1428RRM1430RRM1432RRM1434RRM1436RRM1438RRM1440RRM1442RRM1444RRM1446RRM1448RRM1450RRM1452RRM1454RRM1456RRM1458RRM1460RRM1462RRM1464RRM1466RRM1468RRM1470RRM1472RRM1474RRM1476RRM1478RRM1480RRM1482RRM1484RRM1486RRM1488RRM1490RRM1492RRM1494RRM1496RRM1498RRM1500RRM1502RRM1504RRM1506RRM1508RRM1510RRM1512RRM1514RRM1516RRM1518RRM1520RRM1522RRM1524RRM1526RRM1528RRM1530RRM1532RRM1534RRM1536RRM1538RRM1540RRM1542RRM
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MBR3045CT

■Thermal Characteristics $T_a=25$ Unless otherwise specified

			UNIT	
Thermal Resistance	Between junction and case	$R_{\theta J-C}$	/W	2.0



■Outline Dimensions

